

Music-on-hold

INTERWORK DESCR



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GENERAL

MUSIC-ON-HOLD is a facility for connection of sound information to a parked or queued subscriber or extension.

The board type used for MUSIC-ON-HOLD is TMU board. A multi-purpose board for auxiliary devices with two (2) analogue inputs for connection of sound equipment. See 1 Interface TMU board and sound equipment on page 3. In earlier releases is tone sender board, TSU-T used, equipped with three (3) analogue inputs for connection of sound equipment .

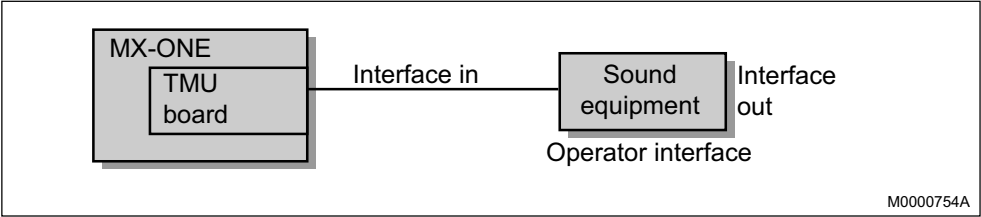


Figure 1: Interface TMU board and sound equipment

The characteristics of the interface are as follows:

See 2 Sound wire connection on page 3.

- A two-wire connection transfers the sound from the sound equipment to the MDF, from where parallel connections are run to all LIMs in the PABX.
- A three-wire connection controls the sound equipment. One wire is common, whereas the other two provide one actively closed circuit and one actively broken circuit.

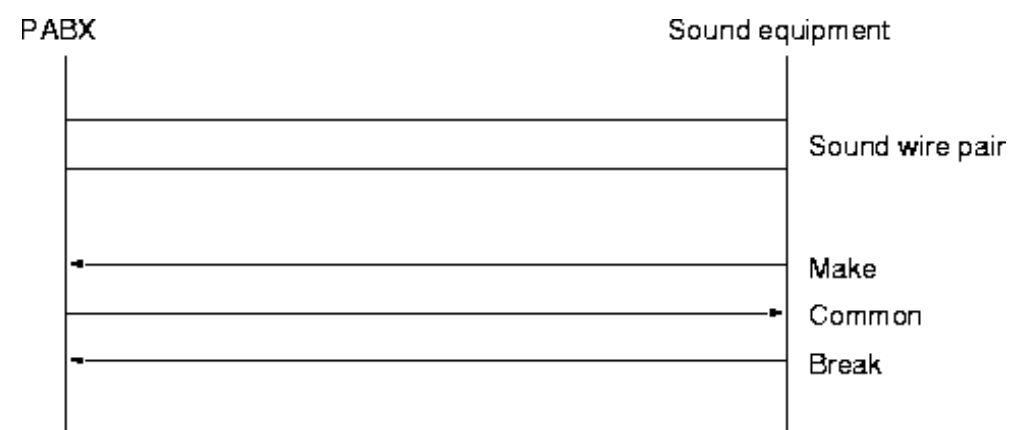


Figure 2: Sound wire connection

2 INTERFACE IN

2.1 GENERAL

The number of individuals per TMU to be used for MUSIC-ON-HOLD is changeable by command. ASPAC:PARNUM=154.

There are three different cases:

- No individual on TMU is used for MUSIC-ON-HOLD.
- One individual per TMU is used for MUSIC-ON-HOLD.
 Individual No. 1 on the TMU board in the lowest board position among the TMU boards in a LIM is used for MUSIC-ON-HOLD1.
 Individual No. 1 on the second TMU board, in order of board positions, is used for MUSIC-ON-HOLD2.
 Individual No. 1 on the third TMU board, in order of board positions, is used for MUSIC-ON-HOLD3.
- Two individuals per TMU board are used for MUSIC-ON-HOLD.
 Individual No. 1 on the TMU board in the lowest board position among the TMU boards in a LIM is used for MUSIC-ON-HOLD1.
 Individual No. 2 on the TMU board in the lowest board position among the TMU boards in a LIM is used for MUSIC-ON-HOLD2.
 Individual No. 1 on the second TMU board, in order of board positions, is used for MUSIC-ON-HOLD3.

MUSIC-ON-HOLD1 is used in all application systems at parking. The usage of MUSIC-ON-HOLD2 and MUSIC-ON-HOLD3 is application system dependent.

The sound wires are connected in parallel from a sound equipment to the relevant TMU individual in all LIMs.

The control wires are connected in parallel like the sound wires. See 3 Electrical interface on page 5.

2.2 LOGICAL INTERFACE

The TSP program unit handles control signals in the interface to the external sound equipment. The sound equipment is activated by means of a make or a break, depending on how the external sound equipment works.

If no control of the sound equipment is possible, it will transmit continuously without the control wires being connected.

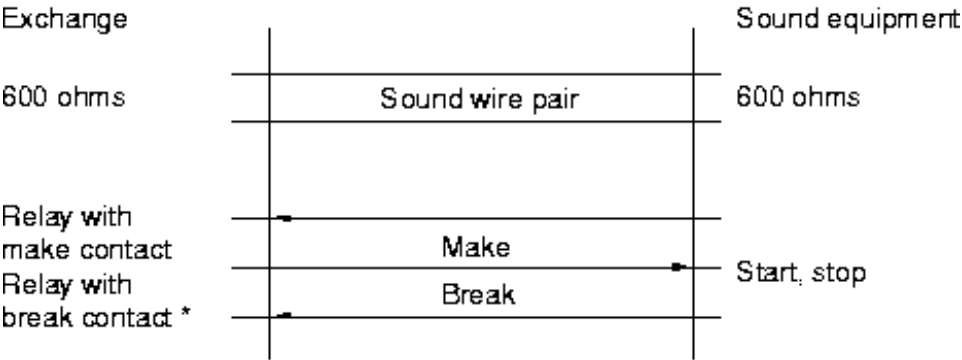
2.3 ELECTRICAL INTERFACE

The TMU board does not supply the sound equipment with current feed.

Input impedance for PABX
and sound equipment: 600 ohms

Frequency range: 300 - 3400 Hz

Attenuation distortion: -0.5 dBm to +3 dBm



* If more than one TMU board is connected to the same sound equipment, make contact is to be used for activating the sound equipment.

Figure 3: Electrical interface

2.4 MECHANICAL INTERFACE

If standard cabling is to be used, a 5-pole 180-degree DIN contact will be required on the output.

Note:
Care for the pin position of the cable according to installation instructions for MUSIC-ON-HOLD.

2.5 PROTOCOL

3 INTERFACE OUT

4 OPERATOR INTERFACE
