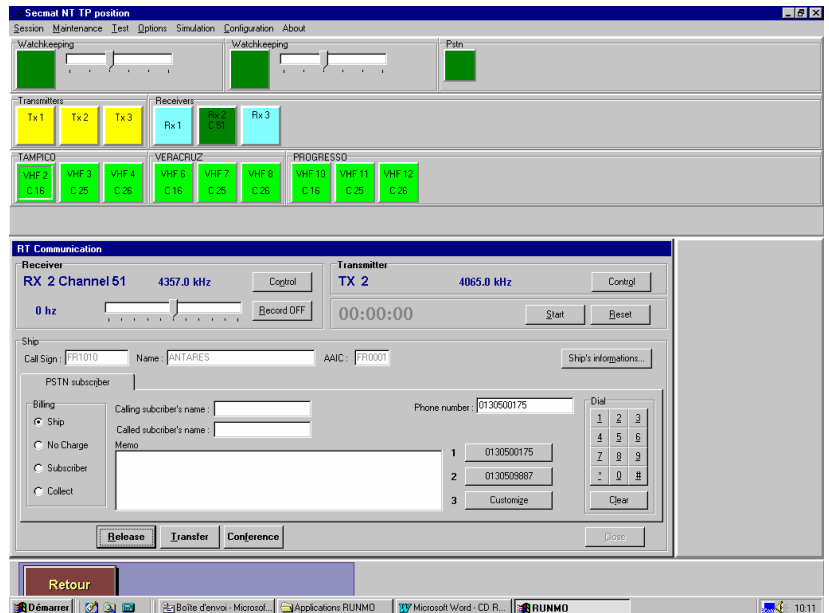


VHF, MF, HF
Frequency Bands

COMMERCIAL MANUAL RADIOTELEPHONY CALLS HANDLING SOFTWARE

These software modules handle the ship-to-shore calls in commercial manual radiotelephony either for VHF, MF or HF frequency band. The software features are similar for all frequency bands, nevertheless the software modules will be different depending on frequency range processed.

- **Watchkeeping of radiotelephony channels**
- **Control of radio equipment**
- **Control of PSTN accesses**
- **Control of manual traffic positions and associated resources**
- **Broadcasting on several channels simultaneously**
- **Call authorisation with the help of the Ship Database**
- **Billing ticket list**
- **Several communications handled simultaneously by one operator position**
- **Fully compatible with other Maritime Mobile Service software modules**
- **Running under WINDOWS ä XP**



To set up a radio channel, the operator must select the radio station, the transmitter, the receiver or the transceiver, the antennas and the remote control of the frequency, the transmission mode and the power of the transmitter, if necessary.

Traffic calling channels

The operator watches over the radio channels through the loudspeakers of the Traffic Operator Position. When a ship is calling, the operator gets and types information about the required call on the terminal (Ship identity, Frequency and called subscriber's number).

Traffic working channels

These channels are used for public correspondence. If radio equipment are connected and a call is received directly, the Access Control and Switching Equipment (ACSE) of the coast station controls either the VHF radio carrier or voice detection and transmits a visual and audible alarm to the operator terminal. The coast station automatically sends a tone to the ship's operator to acknowledge the call request.

As soon as possible, the coast station operator sets up the connection with the ship, asks for information about the required call that he enters on the terminal for billing purpose.

Call setting up

The main operating procedures to set up a call are :

- Checking of the ship's authorisation by the operator, with help of the database
- Selection of the receiver and the transmitter
- Selection of the associated receive and transmit antennas
- Checking of the quality of the call on the working channel frequency (adjustment of the receiver tuning, ...)
- Selection of the PSTN access and supervision of the call by the operator.

Call connection

When both parties are ready, the operator selects either the conference key or the transfer key to control the connection. The ACSE of the coast station switches PSTN to radio path and operator access, if required (Conference).

Call Operations

The Service Handling Position will generate a Billing Ticket List Record to use later on. The Billing Ticket List Record is held in a database.

Shore-to-Ship calls

The PSTN subscriber provides information about required call. A traffic list is broadcast manually and periodically on the working channels to call the ship's operators. When the ship calls back, the call is operated as a Ship-to-Shore one.

Required equipment

- Access Control and Switching Equipment (ACSE).
- A PC equipped with WINDOWS™ XP is recommended.
- A telephone unit (headphone, loudspeaker and push to talk button).
- Radio equipment: VHF transceivers and/or MF/HF Transmitters and receivers
- Remote control equipment