

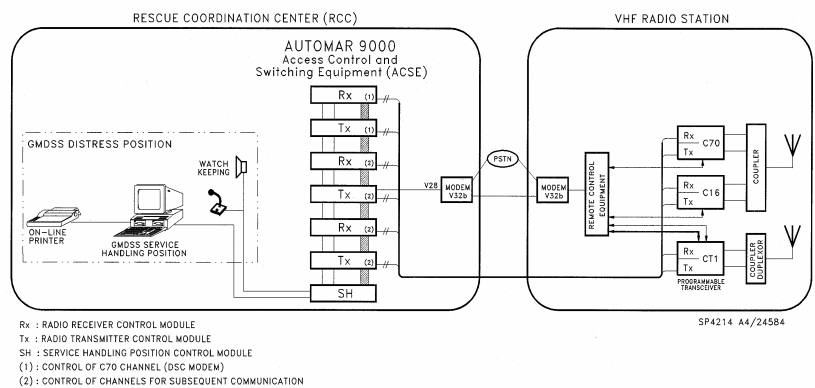
A1 AREA
VHF Band

DISTRESS, URGENCY, SAFETY and ROUTINE DSC SUBSEQUENT COMMUNICATIONS HANDLING SOFTWARE

DSC is a way for calling a correspondent. The DSC message gives some information like identification of calling ship, type of call, co-ordinates of ship. The communication can be established after acknowledging the DSC call. This software module processes Distress, Urgency, Safety and Routine subsequent communications set-up in radiotelephony, for VHF frequency band. It comes in addition of DSC calls software module.

Key features

- Control of radio equipment (VHF transceivers)
- Control of the operator's telephone unit
- Control of operator's selections and switching
- Module fully compatible with other Maritime Mobile Service software modules
- Running under WINDOWS™ XP



GMDSS used frequencies

VHF frequencies used in the GMDSS communications systems allocated by the ITU WARC-Mob 87 (RR art N38) are Channel 70 (156.525MHz) and Channel 16 (156.800MHz).

DSC call is always initiated on the DSC distress frequency C70.

Subsequent communications take place on distress Channel 16 or on a duplex channel.

In order to facilitate establishment of subsequent communication, DSC message includes an information specifying the type of subsequent communication wished. This message will be: simplex F3E/G3E, duplex F3E/G3E.

Operations

The SHP telephone unit is connected to Channel 16 transceiver via audio line access, switching unit, audio line access.

The operator speaks with the ship using the PTT key (for a Simplex Channel)

NB : The PTT control is affected by means of data signals sent via the remote control from the coast station to the VHF station. At the VHF station, the data signal from the AUTOMAR equipment is converted to a DC "keying" signal. The PTT control signals are in this case E&M signals.

Processing equipment

The system is based on a central equipment AUTOMAR 9000 which controls/remote controls radio equipment.

Radio equipment for subsequent communications

One channel C16 transceiver is provided on each radio stations.

Optionally PSTN access can be provided. In this case, a duplex channel is required.

Radio equipment for DSC

Only one watchkeeping transceiver on channel C70 is required, but to increase coast station coverage, several C70 transceivers can be handled (one per radio station).

Required equipment

- A PC equipped with WINDOWS™ XP is recommended.
- A Telephone unit (headphone or handset, loudspeaker, push-to-talk button).

Other modules required

- DSC calls handling software, A1 area