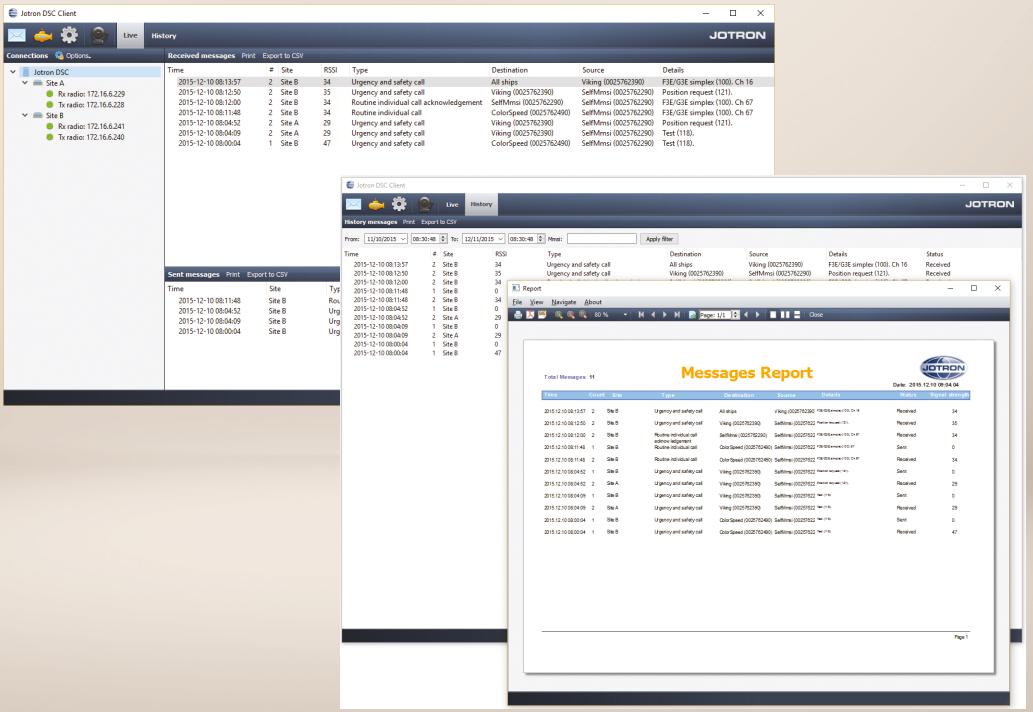
# DSC

## Digital Selective Calling System




JOTRON

Performance for Life

# DSC

**Jotron Digital Selective Calling System (DSC) is an advanced shore station system, providing features and networking capabilities to meet the complex challenges of today's maritime environment**

The DSC system consists of client and server software applications that runs on the Windows™Operating System and Jotron 7000 series VHF coastal radios and MF/HF radios from alternative manufacturers.
The Jotron vhf radios has a built-in digital DSC modem that guarantees reliable system operation and simplicity. Client/server software applications are used for receiving and sending DSC messages, acknowledge or relay distress alarms as defined by ITU-m493.

Runs on multiple Microsoft™ Windows versions: Windows 7, 10 and 11 Windows Server 2008, 2012, 2016, 2019, 2022

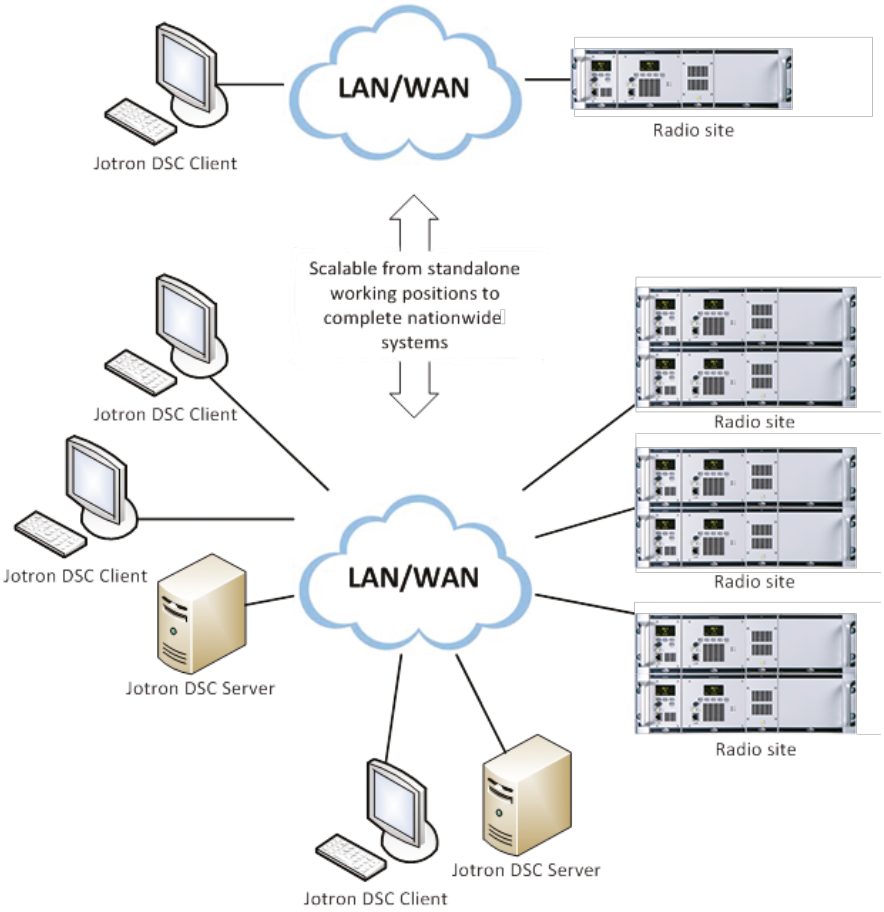
The system is designed to meet the requirements of Coastal Port and VTS Stations and cannot be used onboard ships and vessels without other equipment ensuring that the GMDSS requirements for Ship-Borne radio installations are met. poritio ratemque cusapiet pere landis dene con pratem si doleceritis.

## Features

- Professional IMO and ITU compliant solution
- High reliability and simple system maintenance thanks to digital DSC modem built into Jotron radios
- Advanced message handling and archiving
- Interface to Jotron RRC-7700 system for VHF message handling
- Fully IP based system requires minimal network bandwidth. DSC messages are digitally processed at the Jotron radios, converted to IP and are sent to our DSC server.
- Possibility to share a single transmitter radio between DSC system and voice communication system. Transmitter will automatically switch to VHF channel-70 for sending a DSC message
- MF/HF capable using Jotron gateways towards analogue radios
- Configurable DSC message templates
- Scalable server/client architecture. Suitable for standalone working positions and expandable to large installations with multiple working positions and radio sites
- API towards VTMIS systems for integration to customers systems
- Reliable communication within the system using industry-standard TCP/IP network
- DSC messages are archived in an SQL database. Archiving period is configurable and limited only by available storage capacity on the computer. Archived messages can be searched, printed or exported to Microsoft Excel
- System status monitoring and fault indication at working position

## Flexible Architecture

The architecture is flexible and scalable. Multiple clients can connect to a server to operate the same radio sites, a client can also connect to multiple servers at the same time.




# Specifications

| JOTRON DSC SYSTEM PARTS |
| --- |
| Jotron DSC client (software component) |
| Jotron DSC server (software component) |
| TA-7650C, DSC enabled coastal transmitter unit |
| RA-7203C, DSC enabled coastal receiver unit |
| RGW-7700, DSC enabled gateway for MF/HF DSC |

| COMPLIANT TO THE FOLLOWING DSC STANDARDS |
| --- |
| ITU-R M.493-16 |
| ITU-R M.1080 |
| ITU-R M.821-1 |

# DSC

## Example operation