

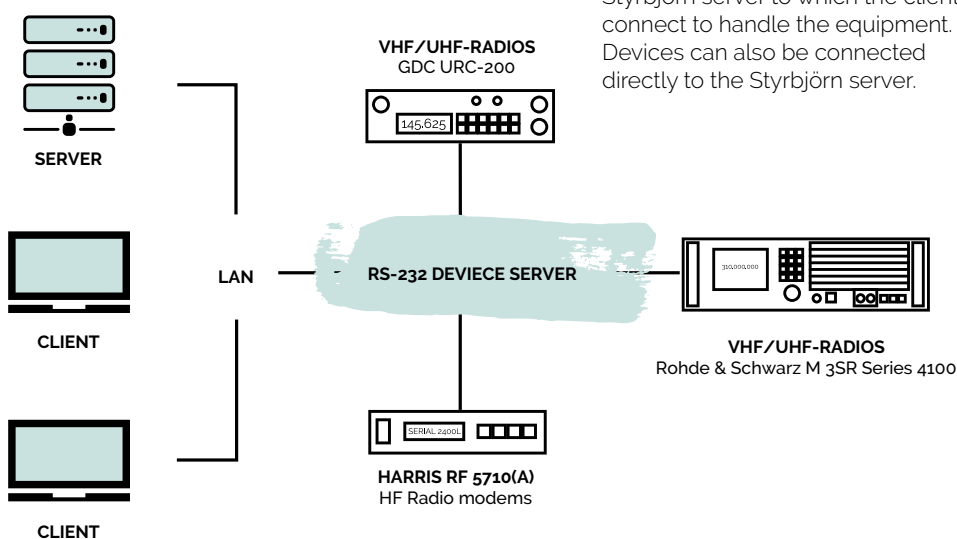
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Styrbjörn™ – Triton Secure Platform™

Styrbjörn is a software system used to remote control, operate and manage multiple radio devices such as VHF/UHF-radios and HF-modems.

Styrbjörn, a name common on rune stone inscriptions ever since the 4th century and Swedish Navy ships ever since HMS Styrbjörn acted as Gustav III's flag ship in the Russo-Swedish war of 1788-1790, is the name of a radio device remote control software primarily intended for use on navy ships.

Using Styrbjörn an operator can control connected devices, physically spread out and installed at various places throughout a unit, all through one unified graphical interface.



Example of Styrbjörn system design on a ship

FLEXIBLE SYSTEM DESIGN

Styrbjörn is based upon a flexible design concept that allows one or several operator positions, local devices directly connected to the system and/or remote devices connected through a local area network.

Styrbjörn can simultaneously control one or several devices of different kinds. Styrbjörn currently supports:

- Rohde & Schwarz M3SR software defined radio (VHF/UHF)
- GDC URC-200 LOS Transceiver (VHF/UHF)
- Harris RF-5710(A) high-frequency (HF) modem for high-speed data transmission.

THE PICTURE is a design example where multiple devices are connected to a network connected device server. These devices are configured and handled by the Styrbjörn server to which the clients connect to handle the equipment. Devices can also be connected directly to the Styrbjörn server.

GRAPHICAL USER INTERFACE

Multiple client positions connect to a Styrbjörn server using a local area network. The graphical user interface is designed using the cross-platform application framework Qt and can be configured in a flexible way to handle all or some of the connected devices in the common user interface.

Users can have different roles and access different parts of the system. Administrators/technicians can reconfigure the device connections in the running system and standard operators can perform all the common operations and monitor connected devices.

FUNCTIONS

- Control and management of radio device settings
- Health check of devices through built in test
- Extended health check with antenna performance (standing wave ratio)
- External scanning function where multiple channels can be watched for traffic
- Automatic squelch
- Automatic notification of possible frequency issues such as intermodulation, mirror frequency etc.
- Emergency beacon (121,5 and 243 MHz) control
- Control and monitor modem settings and sensors.

REFERENCES

Styrbjörn is currently operational on multiple Swedish Navy ships such as the Koster Class mine counter-measure vessels, support ship HMS Trossö and the Göteborg Class corvettes.