



Connecting radios all over the world

Options and Extras

V 1.8

160105

SoftRadio XL

Mimer SoftRadio XL is for users with large systems or special functional needs.

With the XL version you can connect up to 30 devices, or even more, standard is eight devices.

This means that you can monitor all your radios and also connect telephones, VoiceLog etc without having to reduce the number of radios.

Your SoftRadio XL can easily be set up in different configurations for easy access to your devices. You can even move the devices around freely to make up groups of devices.

All standard options can be added like CrossPatch, GroupSend and PhoneConnect.

The device panels can be configured to suit the users needs, allowing buttons to be added or removed.



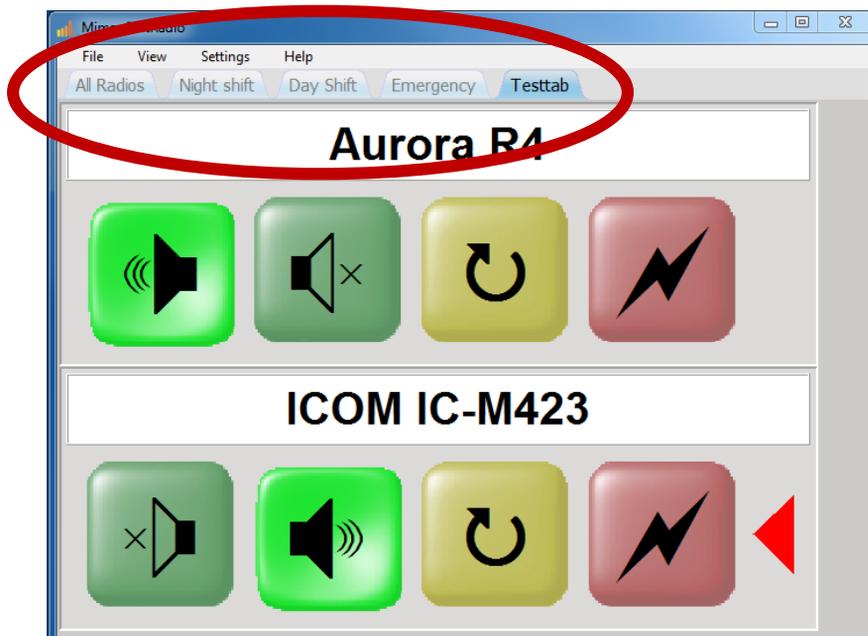
Mimer SoftRadio XL with 7 sites, each with 3 radios + InterCom and VoiceLog

SoftRadio XL

Grouping devices in Tabs

In **Mimer SoftRadio XL** you can group your devices into **Tabs**, so that each operator can have his/her own tab or different user groups can have different tabs. For example all the radios at the Stockholm Airport on one tab and all the radios at the Copenhagen airport on another.

Each tab can have up to 30 devices and you can have as many tabs as you need. Each device can also be active on several tabs. All tabs but the first one can be password protected.



SoftRadio XL with Tabs activated

Multiple Hotkeys

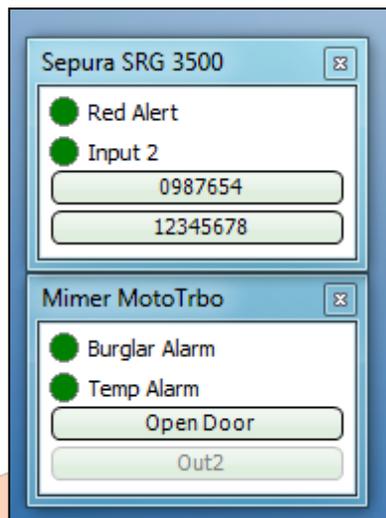
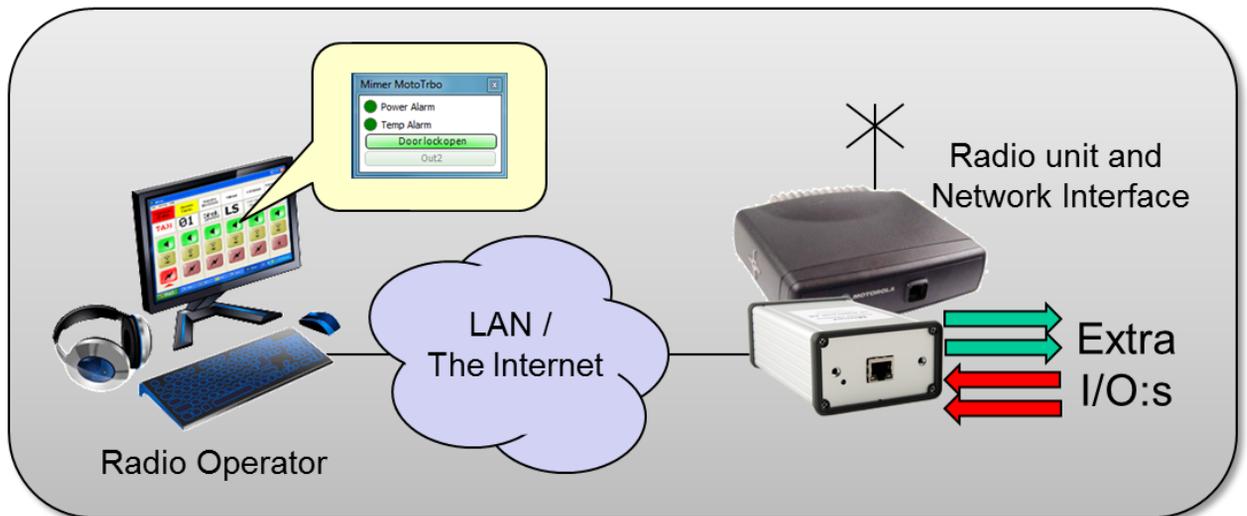
With an extra option to XL you can dedicate separate hotkeys as PTT:s for each radio in your system. Either on the standard keyboard or on a separate keyboard.

SoftRadio XL

I/O Control

With an extra option to XL you can activate I/O:s in the radios network interface and for example monitor alarms from the radio sites. Typical use is power or burglar alarm at the radio site.

You can also activate an output for example to unlock the door to the radio site.



Example of I/O control windows for two radio units

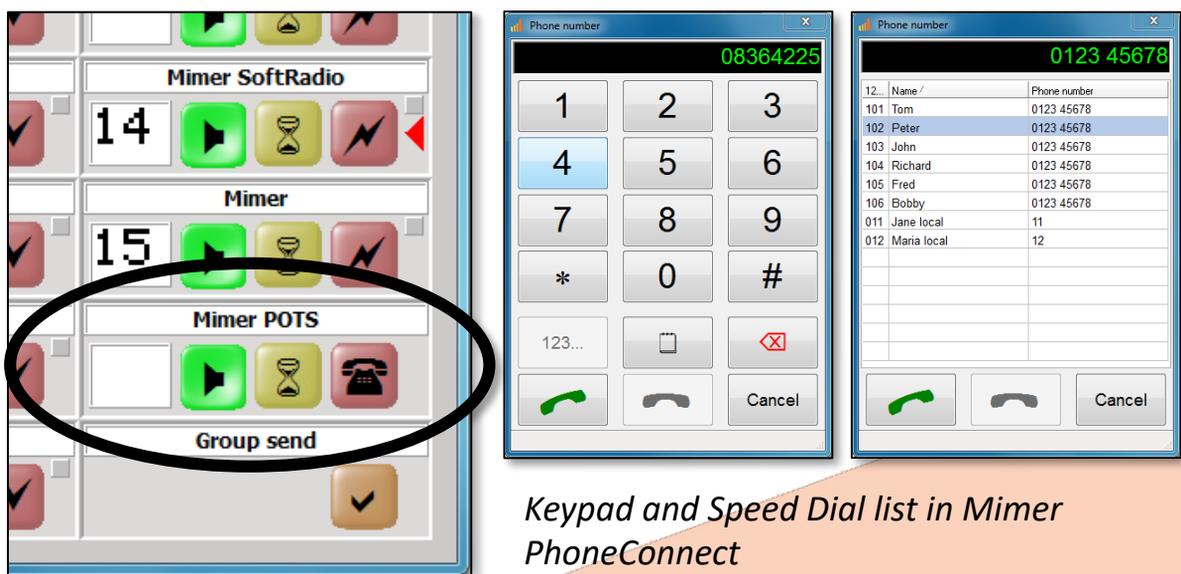
PhoneConnect

When your operators have a need to make telephone calls.

With Mimer PhoneConnect your Mimer dispatcher can mix phone calls with radio calls and use the same headset.

With the addition of Mimer PhoneConnect, one or more of the standard device panels can be used as a telephone device. This gives the operators the ability to make phone calls using the same dispatcher system and headset interface as they use for radio calls.

Also if Mimer CrossPatch is installed, calls can be patched between radio and phone users. This is all carried out under supervision from the operator.



Keypad and Speed Dial list in Mimer PhoneConnect

Mimer PhoneConnect will work over POTS, IP-phone (SIP) or GSM.

CrossPatch

When you have a need to patch two or more radio channels together.

Mimer CrossPatch is a software option to Mimer SoftRadio that will allow you to patch different radios together.

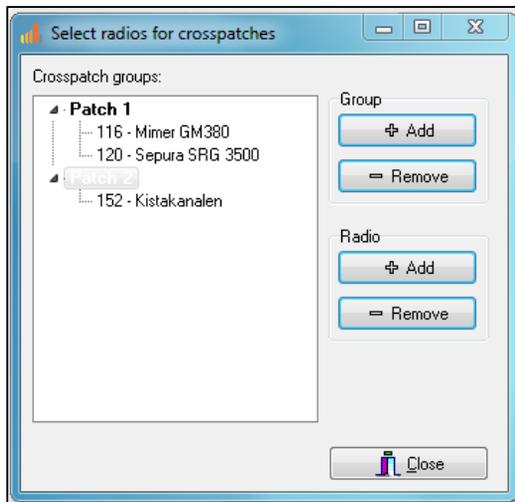
For example;

- a VHF radio can be connected to a UHF radio
- an analogue channel can be connected to a Tetra Talk Group
- radios at different sites can be connected to make up a larger radio area

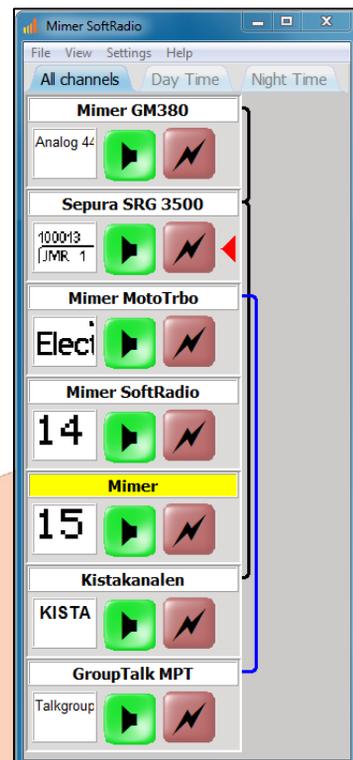
If you have Mimer PhoneConnect or Mimer Intercom then these can also be patched to your radio channels.

Mimer CrossPatch is flexible and can set up patches which are permanent or temporary. Every operator can set up their own set of Cross Patches.

A patch can be just two radios or many radios. And you can set up many patches at the same time.



An example of Cross Patching radio's together.

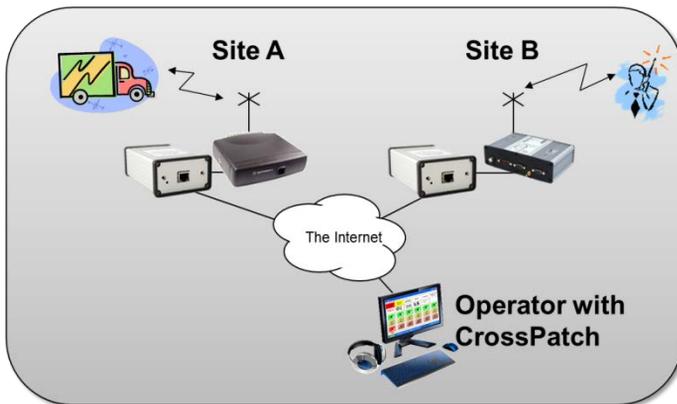


CrossPatch

In the example below the car is in the area of Site A using an analogue radio system and the portable radio is under Site B using a Tetra radio.

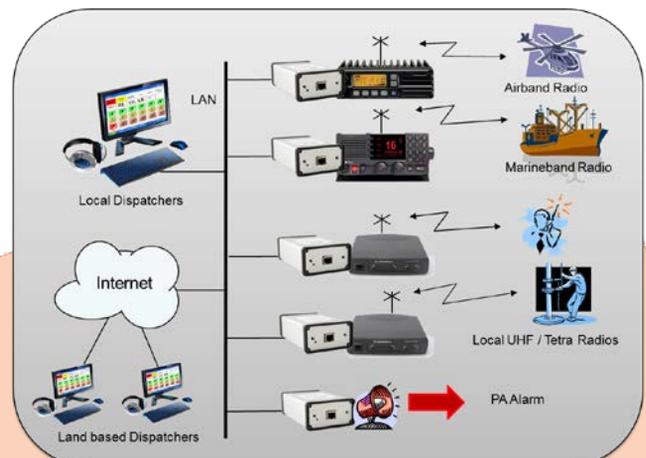
The operator can cross patch the two radio systems together making both a system patch between analogue and Tetra and a geographical patch building a larger radio site combining both Site A and Site B coverage.

The patch can be used just for one call, for a time period or made permanent, it's up to the operator.



Above a simple system example of Cross Patch use.

Below a more advanced system where different radio types can be cross patched to each other.



Custom Functions Panel

Sometimes you need more function keys than is found on each of the device panels.

The Custom Functions Panel can be equipped with keys that in the background run scripts. This opens for a wide variety of future functions. Please ask if you have ideas of functions you would like to see.

The first implemented functions, that also are included in the basic package if you order the option to your SoftRadio system are:

- GroupSend
- Audio Device Select



SoftRadio with the Custom Functions Panel activated

The colour of the keys and the symbols on the keys can be changed by the system administrator.

Custom Functions Panel

Audio Device Select

Many operators have the need to change between using a speaker/microphone combination over to a headset, all depending of the noise situation and what is comfortable.

With the Audio Device Select function you change easily between two audio cards connected in Windows. The audio cards can be built into the PC or USB connected.

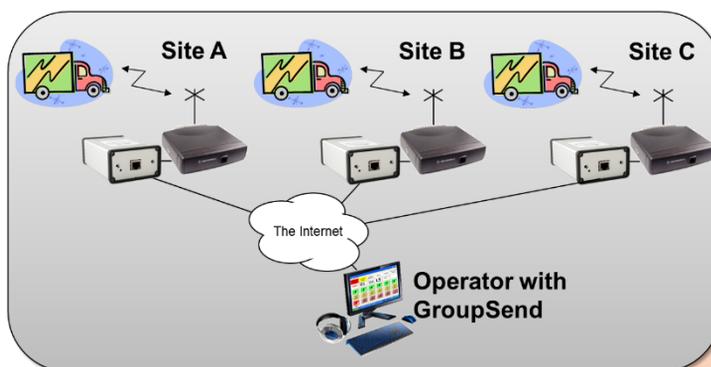
Many headsets today are also delivered with a built in audio card and then connects directly to the PC via USB.



GroupSend

GroupSend comes with the Custom Functions Panel and will allow you to simultaneously transmit on more than one radio. In the example below each site represents a geographical area with a number of cars.

The operator can transmit to all cars at the same time by using the option GroupSend. Useful if you don't know in what area a car is.



A simple system example of GroupSend use.

In for example a factory or an airport the base radios are often in the same site but working on different channels. If you then need to reach out with an emergency message on all channels, GroupSend can also be very useful.

SpeedDial

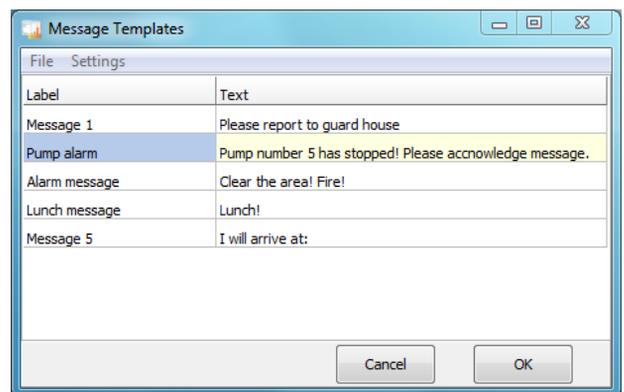
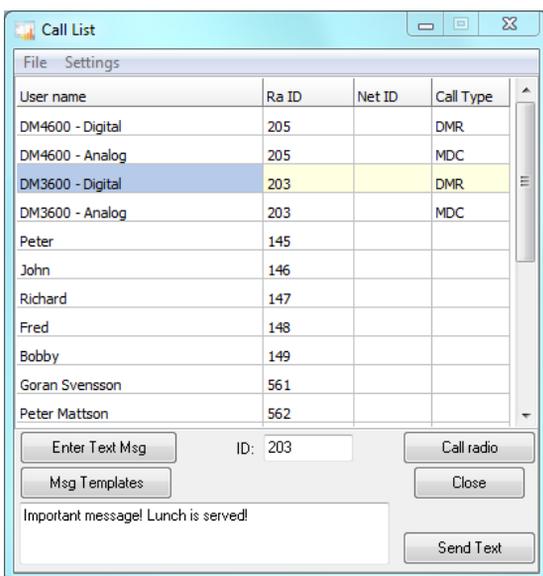
Short Dial with Text Send

A speed dial list is added as a separate window to the operators SoftRadio GUI. The list is fetched either from an Excel file in each operator PC or from a shared data base.

The operator can choose name and number from the list or enter a free number in the ID box and then call the radio with the push of a button or a double click.

If your radios also handles text messaging you will be able to send free text and pre defined text messages.

Works with DMR, Tetra, MPT, CCIR, MDC etc.



Message template window

Call List window with preprogrammed names and numbers & text message window

Local CallLog

For logging of calls in both 5-tone systems, DMR and in Marine VHF-systems (Tetra will be added)

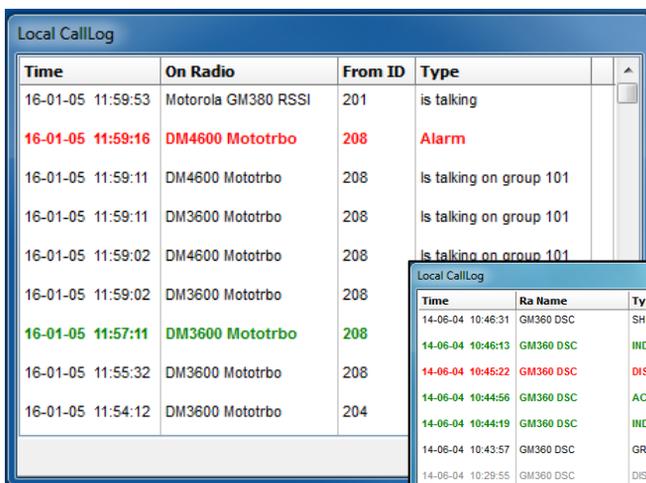
Each operator gets a log function that saves all incoming calls in a log file on the PC hard drive. A new file is started for each day.

A CallLog window displays the latest incoming calls and high lights emergencies in red. You can see which radio in the Mimer system that received the call, who sent it and what type of call it was.

In 5-tone systems and in Marine DSC systems decoding of the calls are done in the Network Interface, so the radio does not need to be equipped with a decoder. This also means that each operator can have his own selective call number for every radio that he has connected.

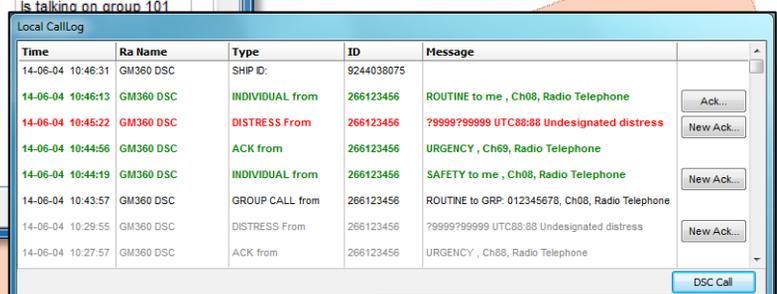
In DMR systems the decoding is done in the radio, so all operators will need to have the same call.

Local CallLog is a very useful function in systems that use PTT-ID (ANI) signaling. The operator will always have at the top of his list, the last radio that transmitted.



Time	On Radio	From ID	Type
16-01-05 11:59:53	Motorola GM380 RSSI	201	is talking
16-01-05 11:59:16	DM4600 Mototrbo	208	Alarm
16-01-05 11:59:11	DM4600 Mototrbo	208	is talking on group 101
16-01-05 11:59:11	DM3600 Mototrbo	208	is talking on group 101
16-01-05 11:59:02	DM4600 Mototrbo	208	is talking on group 101
16-01-05 11:59:02	DM3600 Mototrbo	208	
16-01-05 11:57:11	DM3600 Mototrbo	208	
16-01-05 11:55:32	DM3600 Mototrbo	208	
16-01-05 11:54:12	DM3600 Mototrbo	204	

This function also requires an option in the NetworkInterface.



Time	Ra Name	Type	ID	Message
14-06-04 10:46:31	GM360 DSC	SHIP ID:	9244038075	
14-06-04 10:46:13	GM360 DSC	INDIVIDUAL from	266123456	ROUTINE to me , Ch08, Radio Telephone
14-06-04 10:45:22	GM360 DSC	DISTRESS From	266123456	?9999?99999 UTC8:88 Undesignated distress
14-06-04 10:44:56	GM360 DSC	ACK from	266123456	URGENCY , Ch69, Radio Telephone
14-06-04 10:44:19	GM360 DSC	INDIVIDUAL from	266123456	SAFETY to me , Ch08, Radio Telephone
14-06-04 10:43:57	GM360 DSC	GROUP CALL from	266123456	ROUTINE to GRP: 012345678, Ch08, Radio Telephone
14-06-04 10:29:55	GM360 DSC	DISTRESS From	266123456	?9999?99999 UTC8:88 Undesignated distress
14-06-04 10:27:57	GM360 DSC	ACK from	266123456	URGENCY , Ch88, Radio Telephone

CallLog windows with both calls and alarms.

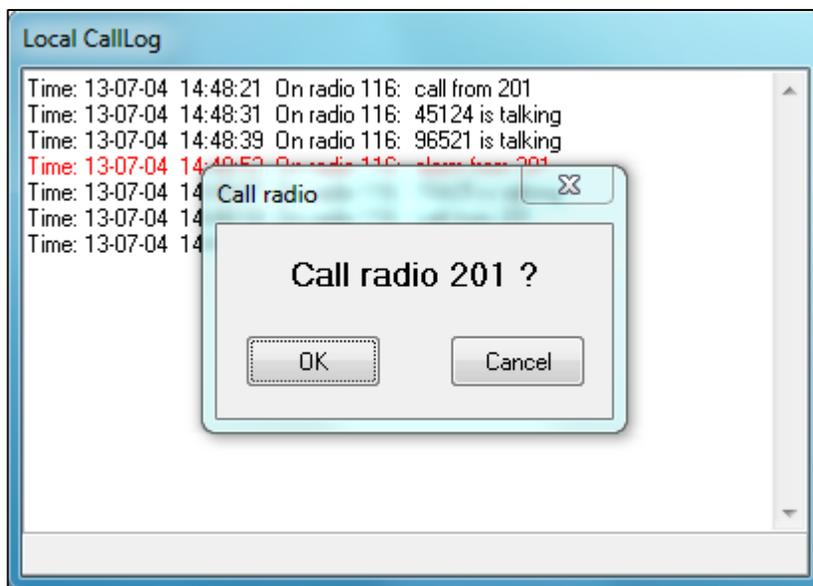
Call Back

Call back function in 5-tone systems.

If you have both “Speed Dial” and “Local CallLog” installed in your Mimer SoftRadio you will also get the possibility to make call back calls.

This is done by double clicking one of the calls in the CallLog.

A useful function both for call back of queues and for clearing alarm calls that need a selective call back.



CallLog window with call back in progress.

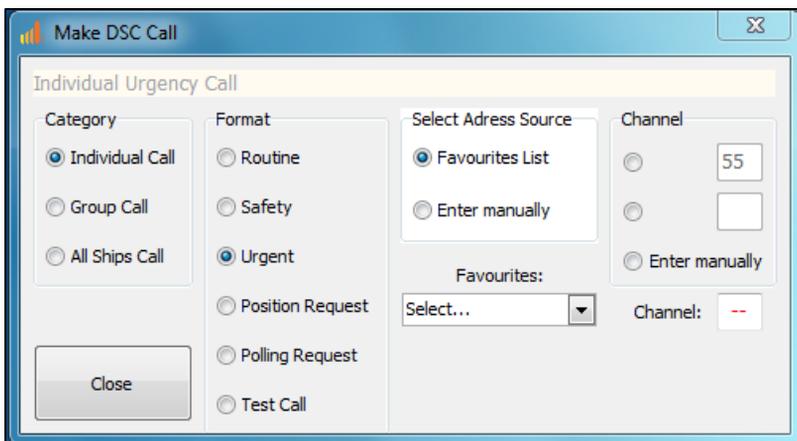
DSC Calls

Making and receiving DSC Calls in Marine VHF systems.

There is a version of the Local CallLog that supports a function to send DSC Calls to ships. It is a simple to use menu system that helps the user to make the correct call.

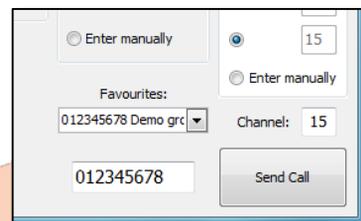
Incoming calls can be acknowledged in the same simple manor.

Perfect solution for harbors, coast stations, oil rigs, and many more. *Not suited for on board ship use.*



DSC Call window.

This function also requires an option in the NetworkInterface.



When all is set, just press "Send Call".

Diversity

Receiver Voting - Diversity

In radio systems with multiple receivers on the same channel you will often receive the same audio from several receivers at the same time, but with different signal strengths.

Using a voting system (diversity) it will select the best one of the audio signals and you will always hear the best possible signal from all of your base station receivers.

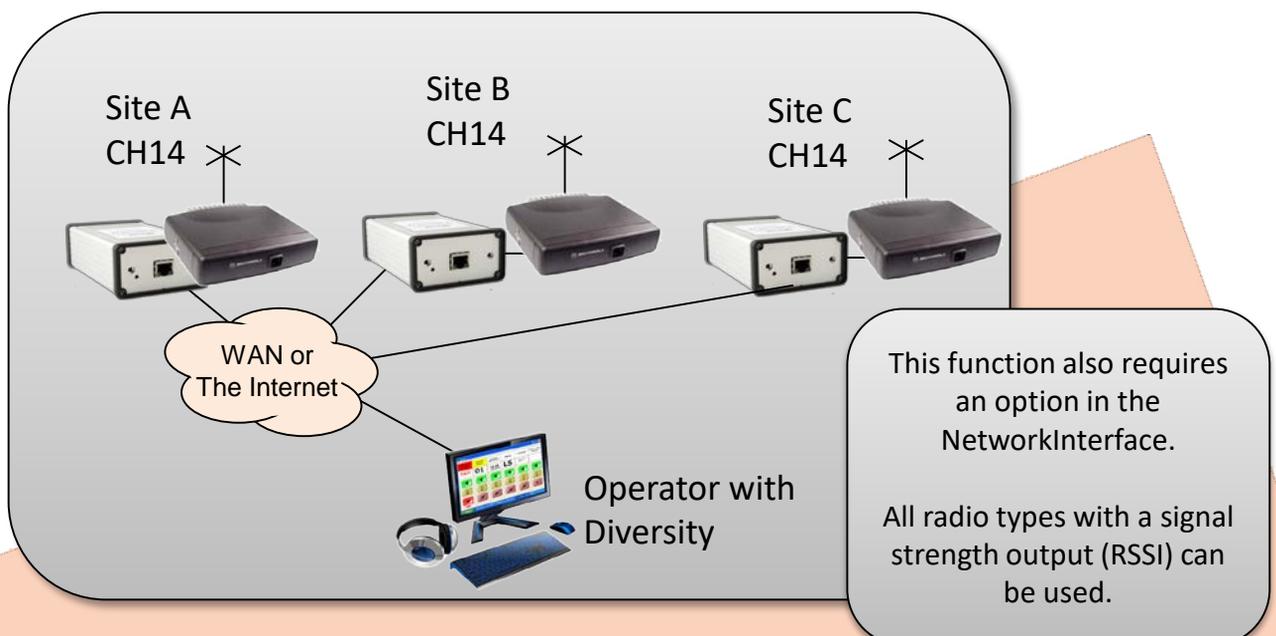
In the drawing below three radio sites with the same Marine-VHF radio channel are connected to one PC operator.

If a ship is between site A and site B both receivers will pick up the signal. The voting system will then determine which of the two signals are the strongest and present only the audio from that radio to the operator.

This gives the operator two advantages:

- He will only hear audio from one receiver (the best one), meaning no distortion.
- He will get a visible indication on his screen telling if it was site A, B or C that had best reception. He will then know on which transmitter to respond to get best possible transmission back to the ship.

He will by this also know roughly where the ship is located.



InterCom

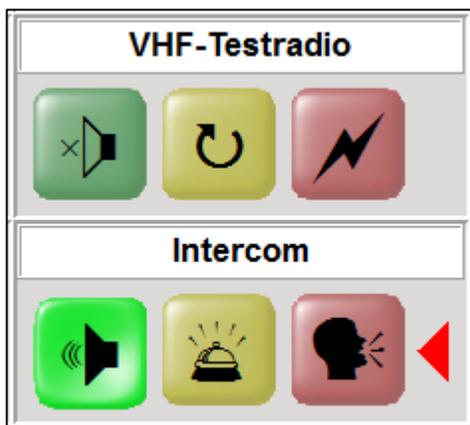
When your operators have a need to talk between each other.

With Mimer InterCom your Mimer dispatcher can make intercom calls between operators without transmitting on the radio system. This is very useful when the operators are at different sites.

With the addition of Mimer InterCom one or more of the standard device panels can be used as an intercom panel. Functionality is very similar to the standard radio device panel except that when using the InterCom panel the transmit button will only transmit audio to other dispatchers that are monitoring the InterCom channel.

Pushing the yellow button will transmit a tone to the other operators as a call signal.

Intercom is set up with a special network interface or with an option to the Network Repeater.



Mimer SoftRadio with one of the device panels set up for InterCom.



You can also connect external wire line devices to the intercom channel.

For example to use in tunnels without radio coverage.

You can also connect to a PA system.



Also see brochures for:

Mimer VoiceLog

Mimer StatusLog

Mimer MapView

Developed in Sweden by LS Elektronik AB

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Dealer: