Connecting radios all over the world

Setting up the

Mimer StatusLog Server

and the

Mimer StatusLog Client

Release date 150430

This guide will help with the setup of your Mimer StatusLog system.
Please also refer to the web page www.softradio.se.

1 Table of Contents

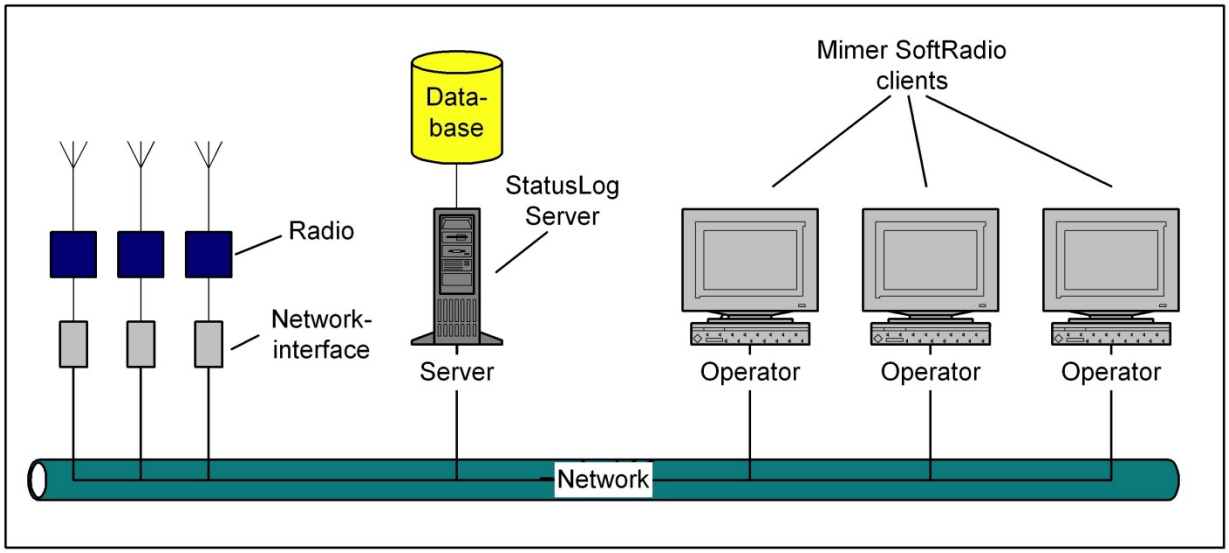
2 General

Mimer StatusLog is a component in the Mimer family of products for network operated 2-way radios.

Basically the StatusLog is a product for logging and handling of status messages sent from a fleet of radios to the dispatchers.

2.1 With Mimer StatusLog you can:

- Receive and log status messages from radio units in the field.
- Queue, log and easily handle incoming call requests from units in the field.
- Queue, log and easily handle emergency alarm calls from units in the field.
- Use many operator positions in parallel, sharing the same queue.
- Export status messages to other systems.



2.2 Mimer StatusLog consists of two major parts:

- **Mimer StatusLog Server** is software that runs on a central server computer. It receives status messages from one or more radios, classifies and stores them in a database.
- **Mimer StatusLog Client** is software that runs on the computer at each operator position. This software works together with the Server and the database, displaying incoming messages, and gives the operator the ability to easily call back to the radios that has sent the status messages.

2.3 Mimer SoftRadio integration

The StatusLog-Client program has connections to Mimer SoftRadio in such a way that it uses the same User-ID that is set for the operator and that it can

transfer information about the calling parties ID for easy call-back via SoftRadio.

2.4 Radio List

The program uses a list that is a cross reference between radio-ID and user name. The list is stored in the data base and can be read and updated from both the server and from the clients.

3 Mimer StatusLog Server

One or more radios are connected to the server. It can for example be:

- An MPT1327-radio running MAP27 over a COM-port
- An analogue radio with 5-tone CCIR calls decoded in a Mimer NetworkInterface and sent over IP
- A Tetra radio running PEI over a COM-port

When a status message is received by one of the radios, it is forwarded to the server and stored by the StatusLog Server program in a MySQL-database. At the same time an “update”-message is sent to refresh active Clients. They will then automatically update their StatusLog list.

4 StatusLog Server installation

Install the software package from the supplied USB stick or CD.

When prompted choose “Full installation with MySQL Server”. Then follow the recommended server settings during the installation.

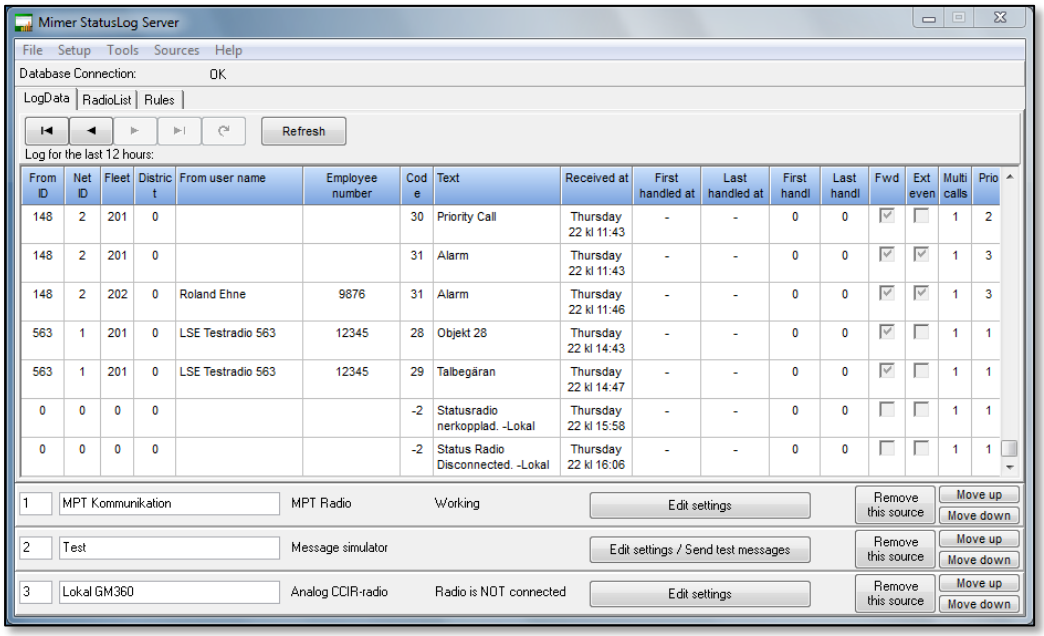
If you are installing an updated version of Mimer StatusLog, then choose “Standard installation without SQL Server”.

4.1 Recommended hardware

We recommend running the software on a separate Windows Server or Windows PC. In small systems the server function may be placed on one of the operator PCs.

In systems with for example a Mimer NetworkRepeater or a Mimer VoiceLog, the server can be shared between the applications.

When shared with Mimer VoiceLog you only need to install MySQL for the first application installed.



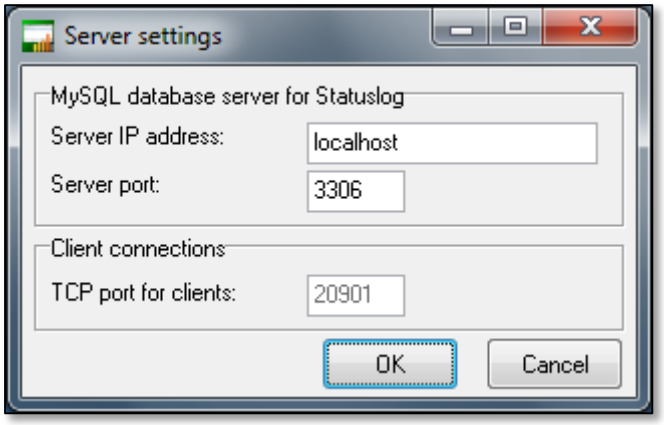
Exampel of Mimer StatusLog Server application with the LogData tab shown

4.2 Server Settings

The first setting is to define where the database is located. This is mostly the same server as the Server application is running on, so “localhost” is the easy setting.

The second setting is the Server Port. This is set up during the installation process and standard is 3306.

The third setting is the TCP-port that the client software should communicate through. It is set to 20901 and cannot be changed.

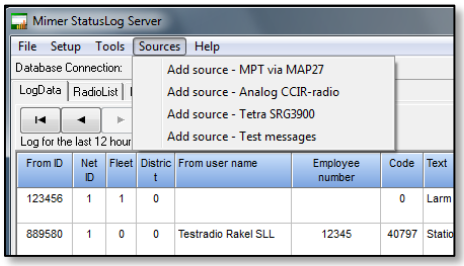


Example of Server Settings

5 Adding a Radio Source

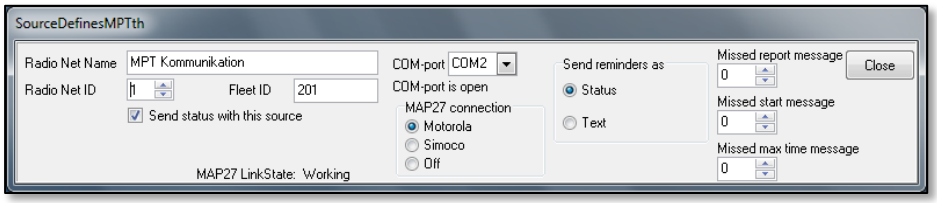
Each StatusLog server can be connected to several radio networks.

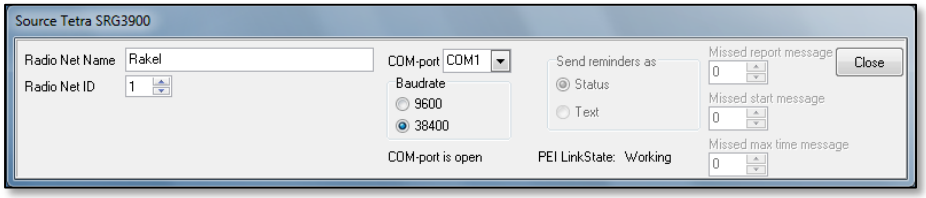
Each status receiving radio connected to the server, called radio sources, needs to be set up with its own definitions so that the system knows what type of radio and radio system it is and what type of signaling it uses etc.



To set up a new radio source, go into the “Sources” menu and click the type needed. Repeat this for the number of radio sources used.

Then make the necessary settings for each radio source.





Examples of SourceDefines

Most settings are self-explanatory; if uncertain please contact the Mimer SoftRadio team.

5.1 Radio NetID

Each radio connected to the StatusLog server is treated as a separate radio network. A separate Radio NetID needs to be set for each of these networks.

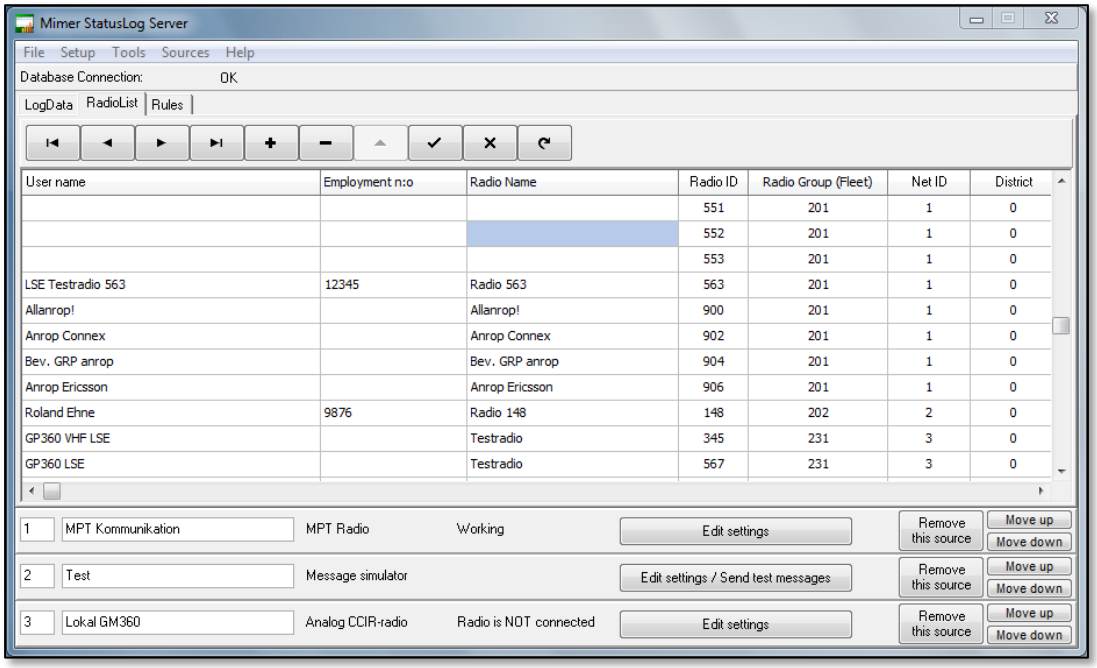
When a call comes in, it will be displayed on which network the call was received. Depending on the operators settings he will be able to make a callback through an automatically selected radio on that network. (More info under Client Installation)

The Radio NetID is also used when defining what the status codes in each radio network means. This is described under “Setting up the Rules”.

6 Setting up the Radio List

Under the tab Radio List, each radio user can be set up, defining the radio ID, Net ID etc.

This list is stored in the data base and it can also be edited from each client.

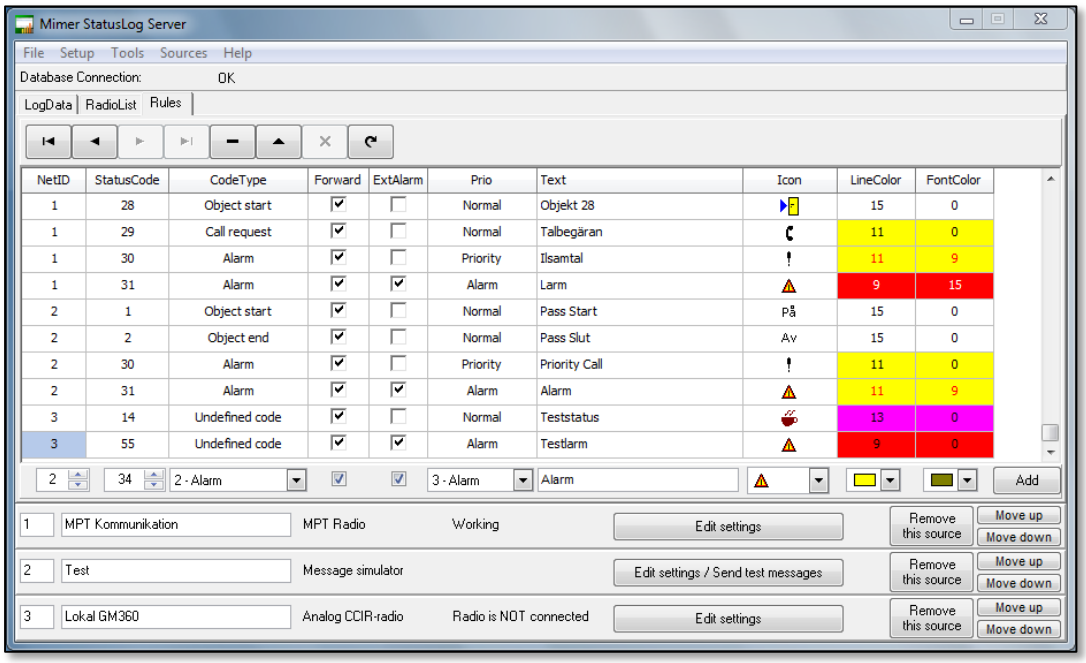


Exampel of Mimer StatusLog Server application with the RadioList tab shown

7 Setting up the Rules

Under the **Rules** tab the definition of every status is set up.

Incoming messages are filtered and classified by the Server program before they are stored in the data base and presented to the clients.



Exampel of Mimer StatusLog Server application with the Rules tab shown

- **NetID** refers to the radio that receives the status.
- **Status Code** is the code transferred over the radio network.
- **Code Type** is only used when the option Mimer “ObjectLog” is installed.
- **Forward** sets if the message shall be forwarded so that a received Status Message is broadcasted on the network to a specific IP port. This message can then be cached by any computer on the network and can be used to update information in other applications.
- **ExtAlarm** sets if the message shall trigger an external alarm function. This message can be cached by a custom application on any computer on the network and can be used, for example, to send a predefined e-mail, or to activate an emergency light or siren.
- **Prio** defines where in the call queue the message is shown on the clients. Normal sets them in time order. Priority comes on top of the queue and alarm comes even on top of priority plus a red blinking square on the operator screen together with an alarm sound.
- **Text** is free to define.

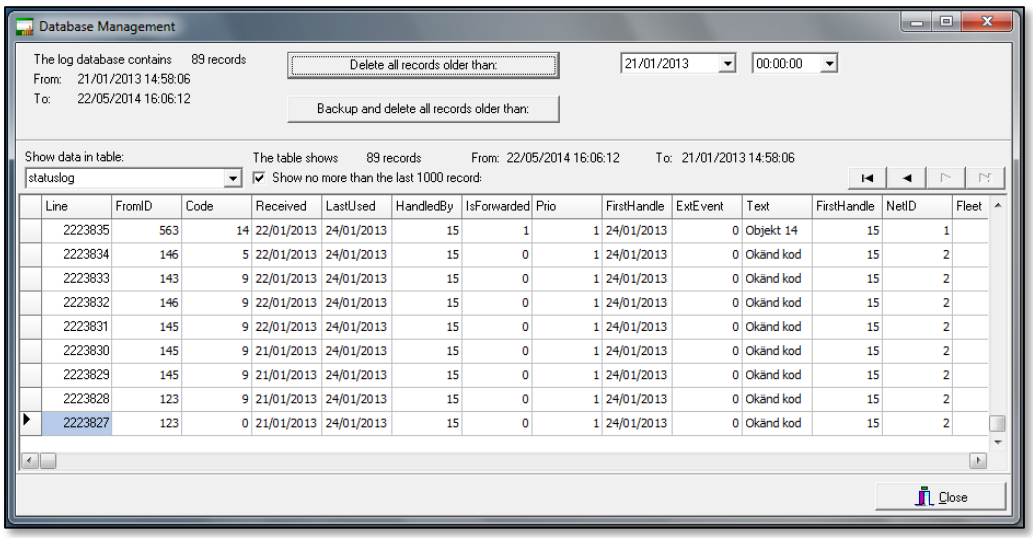
- **Icon** can be chosen to symbolize the message type.
  You can add your own icons in the folder:
  C:ProgramData\Mimer StatusLogServer
  The icons shall be 18x18 pixels in BMP format.
- **LineColor** and **FontColor** defines the presentation in the queue.

After changes have been made make sure to save them by updating the data base. Push the update button:

The changes will be visible in the clients after they have restarted the application or pushed “Reload Rules”.

8 Database Administration

By selecting Tools – Database Management from the menu you get a screen with options for backing up and purging the database. The use of these should be very straight forward and self-explanatory.



Line	FromID	Code	Received	LastUsed	HandledBy	IsForwarded	Prio	FirstHandle	ExtEvent	Text	FirstHandle	NetID	Fleet
2223835	563	14	22/01/2013	24/01/2013	15	1	1	24/01/2013	0	Objekt 14	15	1	
2223834	146	5	22/01/2013	24/01/2013	15	0	1	24/01/2013	0	Okänd kod	15	2	
2223833	143	9	22/01/2013	24/01/2013	15	0	1	24/01/2013	0	Okänd kod	15	2	
2223832	146	9	22/01/2013	24/01/2013	15	0	1	24/01/2013	0	Okänd kod	15	2	
2223831	145	9	22/01/2013	24/01/2013	15	0	1	24/01/2013	0	Okänd kod	15	2	
2223830	145	9	21/01/2013	24/01/2013	15	0	1	24/01/2013	0	Okänd kod	15	2	
2223829	145	9	21/01/2013	24/01/2013	15	0	1	24/01/2013	0	Okänd kod	15	2	
2223828	123	9	21/01/2013	24/01/2013	15	0	1	24/01/2013	0	Okänd kod	15	2	
2223827	123	0	21/01/2013	24/01/2013	15	0	1	24/01/2013	0	Okänd kod	15	2	

Database Management window

The Server program has functions for administration of the database.

These functions allow display of data in the database, copying of data from the database, and deleting of old data in the active database.

8.1 Backing up old data in the database

The Copy function can be used to create copies of the database.

However, backup of the database is easy to do using standard Windows backup systems and it is recommended that the user includes the database files in their existing backup routines.

There is a button for making a backup copy of part of the data to a new table and deleting it from the current table. The backup data table will then be a separate file in the MySQL server's data directory where it can easily be found by a backup system.

8.2 Deleting old data

There is also a function to delete old information from the Database table without backing it up.

Deleting old data is necessary to prevent the database table from being too large.

8.3 Where are the database files located?

The database data files are by default placed in the directory C:\Program (x86)\MySQL\MySQL Server 5.0\data\logdb\

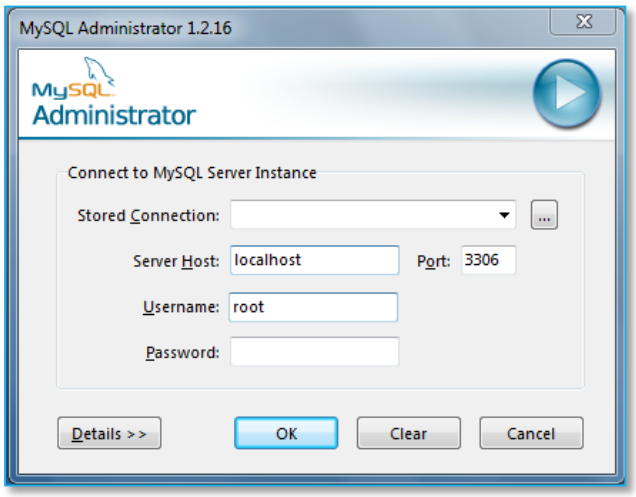
This directory is defined by the settings in the MySQL "my.ini" file in C:\Program (x86)\MySQL\MySQL Server 5.0\. All information on these settings can be found on the Internet if required.

Depending on Windows version it can also be located in C:\Program Files\.....

8.4 MySQL Database

Those who have the knowledge of MySQL databases and would like to work with the database on a deeper level can go to:
Start/All Programs/MySQL/MySQL.

You will be asked to log on at the following window



MySQL Admin logon

The default username is "root" and password is "mimerroot".

9 Mimer StatusLog Client

9.1 Client installation

Install the software package from the supplied USB stick or CD.

Then start the application.

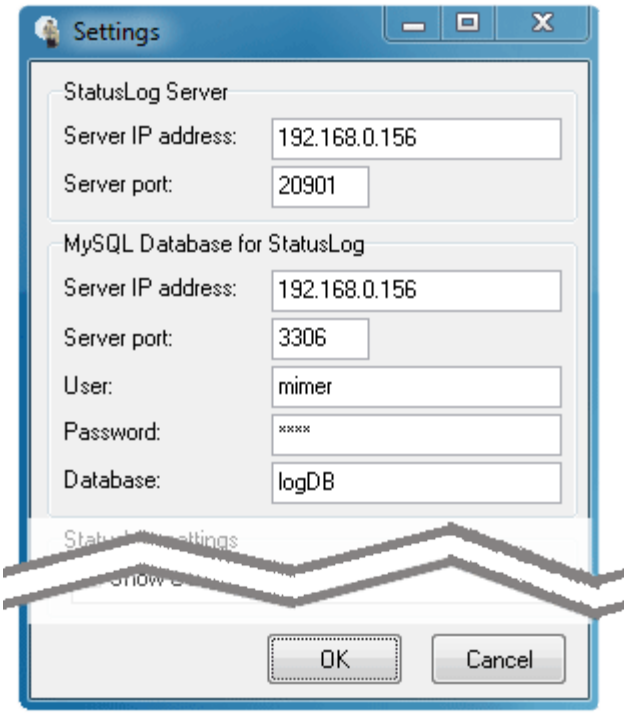
9.2 Client Settings - Server

Set up the parameters referring to the StatusLog Server and the StatusLog Database.

The other settings can be left as default, for now. They are described further down.

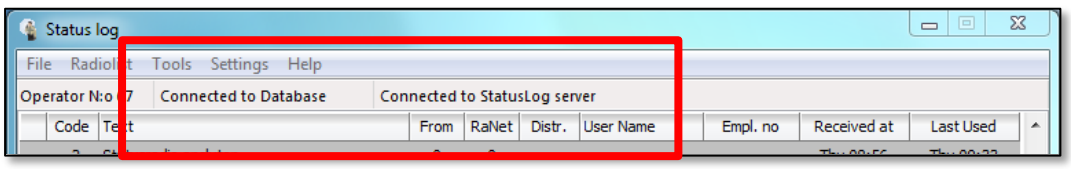
The Settings Menu is found under Settings/Change Settings…

The default settings are as below, with the default password: “list”



Example of Client Settings

After the setting is done the main window shall display “Connected to Database” and “Connected to StatusLog server”.



9.3 Setting of RadioNet Defines

As previously described, the StatusLog server can be connected to several different radio networks. Each status that is logged will display over which radio network the call came in.

In order to do a callback to a call in the call queue, each operator needs to predefine which radio that shall be used as default for a callback on each radio network. This is done in an .ini file placed in the C:/ProgramData/Mimer folder, called “RadioNet_defines.ini”. It can be edited with a standard text editor program.

After changes has been made, save the file, and then restart Mimer SoftRadio.

Example of RadioNet_defines.ini

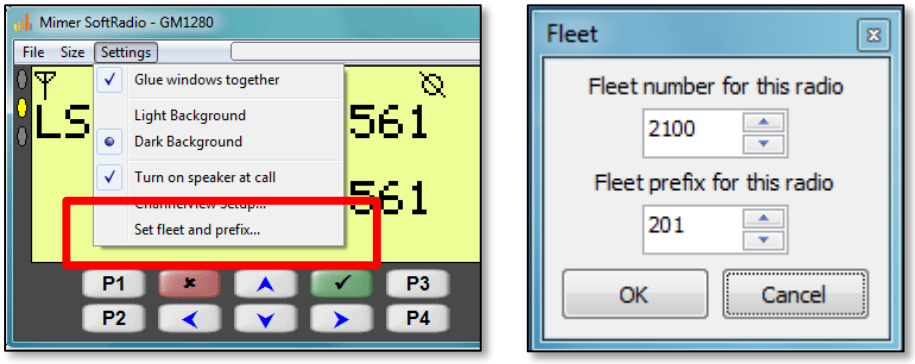
In the example above two radio networks are used. The operator uses radio 115 as default, for outgoing calls, over network 1, and radio 113 for calls on network 2.

Please note: Mimer SoftRadio needs to have the option “Mimer Selective Call” installed in order for the callback function to work.

9.4 Setting of Fleet Prefix

MPT1327 networks use a fleet prefix number so that calls can be made between radios in the same fleet with a short ID number. Calling radios outside the own fleet can be made by using the long inter fleet number.

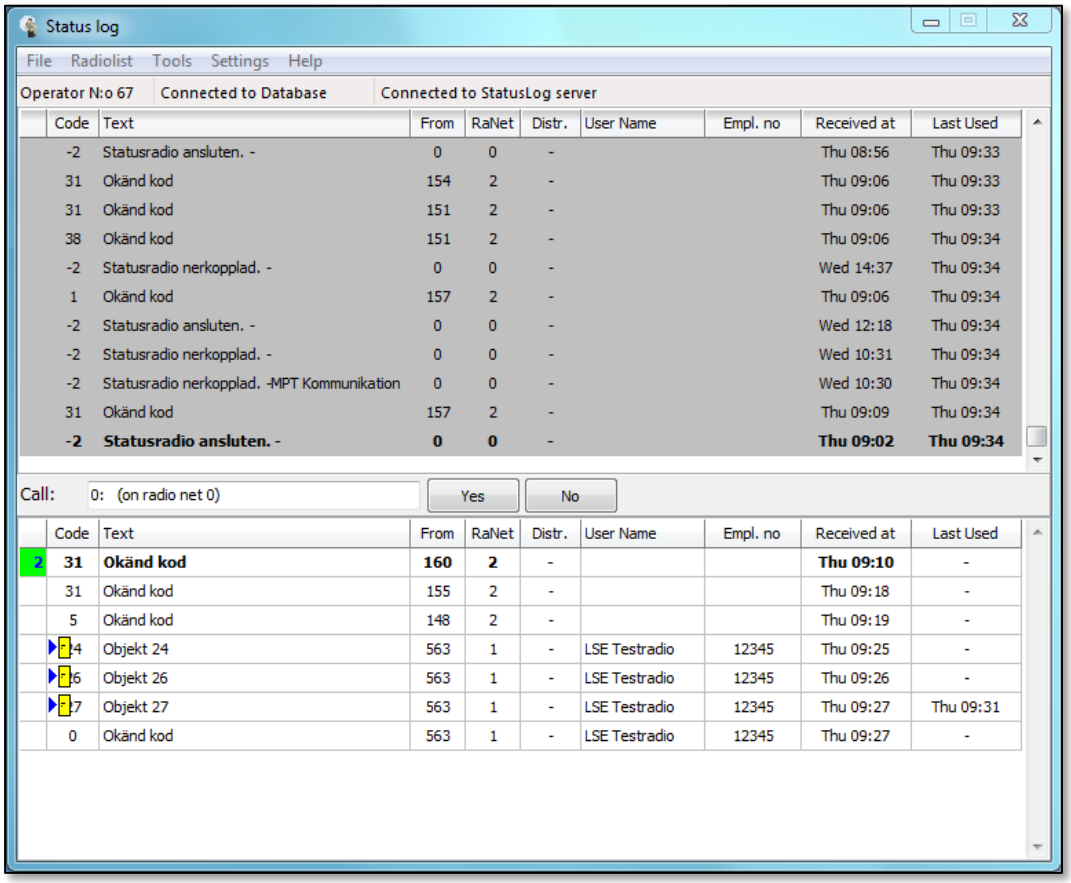
To make the operators daily use easier there is a presetting for the fleet number in each Virtual Control Head (Motorola GM1280).



Settings for Fleet and Prefix in the VCH on Motorola GM1280

10 Using the software

The main window consists of two lists and a status bar.



Example of Mimer StausLog main window

10.1 Queue list

At the bottom is a queue list with all messages that are not yet attended. This list looks the same for all users. The list uses colours and symbols to differentiate the messages. Messages with high priority are shown at the top (i.e. emergency calls). Messages of the same priority level are presented in chronological order.

10.2 History list

At the top is a history list that shows all messages already attended by the operator. This list only shows the messages handled be each operator. The messages in the history list are sorted in the order they have been handled.

Both lists show the code for the message, radio-ID of the sender, name of the sender if he is listed in the name list, the time the message was received and the time when it was last handled by the operator.

10.3 Handling a message

When an operator double clicks on a not yet attended message, it will be moved from the queue list to the bottom of the history list for that operator. A status bar opens that shows the text “Call:” and the ID and name of the radio that sent the message. At the same time the message is removed from the queue list on all other operator screens.

A click on the “Yes” button initiates a call via Mimer SoftRadio using the radio specified as the operators default for the Radio Net that the call came in over. A click on the “No” button will close the status bar, and no call is sent.

An operator can also click an already attended message in the history list. This will place it at the bottom of the history list and open the status bar for the option to make a new call as described above.

10.4 Mowing an already attended message to another operator

By right clicking on a message in the history list a pop-up menu “Change to not handled” will appear. A click on this will move the message back to the queue list and it will therefore be visible again to all operators. Another operator can now double click the message and attend to it in the normal way.

10.5 Calling a radio

A radio can be called in several ways

10.5.1 Using the StatusLog main window

As described under “Handling a message” above, when selecting a call from the call queue the radio ID will be displayed in a status bar with the choice to call that radio or not to.

10.5.2 Using the Radio List

In the StatusLog menu “Radiolist” you will find a window showing the list of radios that are stored in the data base.

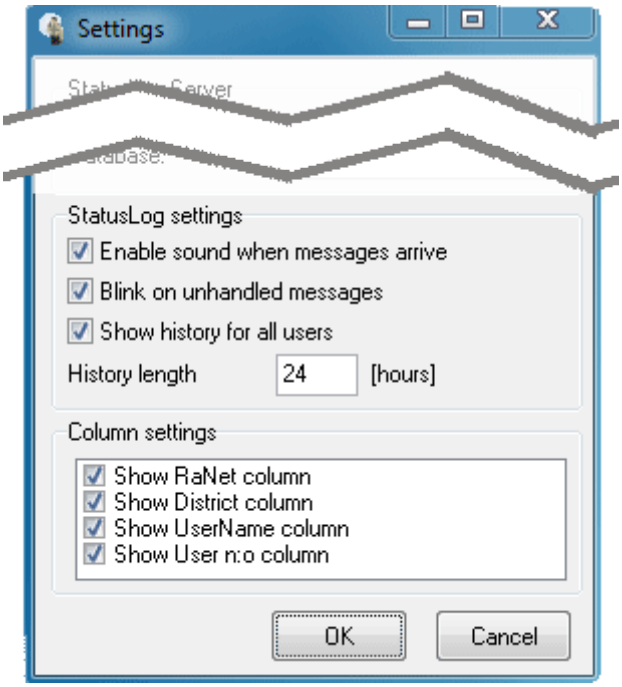
After selecting a radio in the Radio List it can be called with the button “Call Radio”. Or if the tick box “Call by double click” is ticked, by double clicking the row with the selected radio.

10.5.3 Using the Virtual Control Head

Most radios in Mimer SoftRadio has a Virtual Control Head. You can open the VCH and use it to call a radio in the same way as if you were sitting in front of the radio itself.

11 Client Settings - Details

The Settings Menu is found under Settings/Change Settings…



Example of Client Settings

11.1 StatusLog Settings

Here you can set how the client shall react to incoming messages.

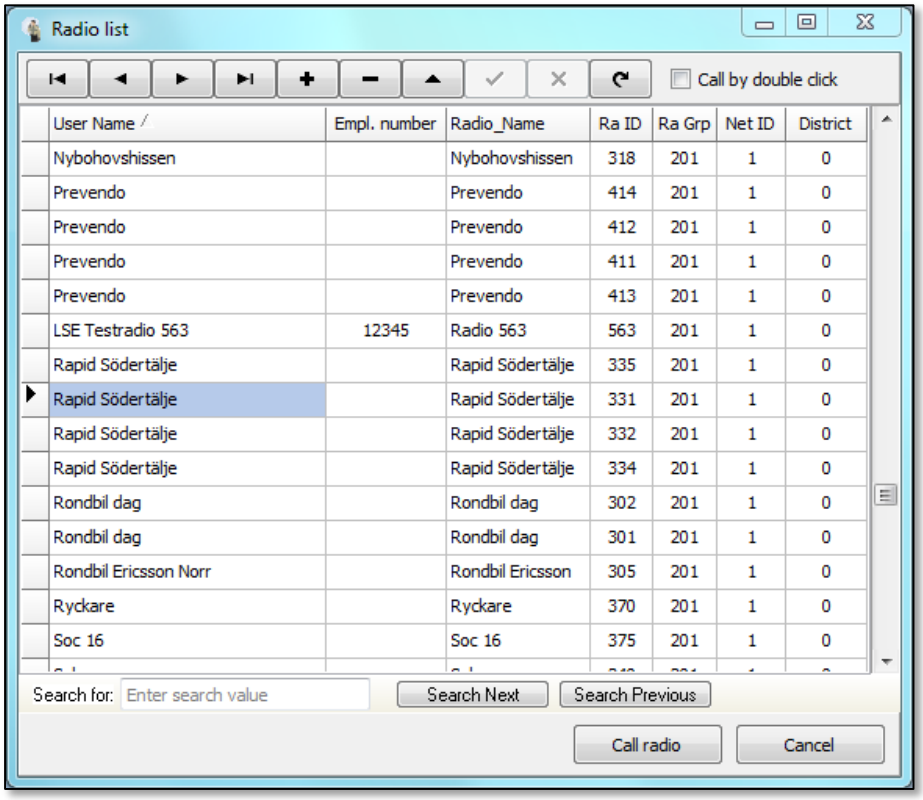
- Enable sound when message arrives
- Blink on unhandled messages
- Show history for all users.
  Unticking this box will display a history list with only the operators own history.
- History Length

11.2 Column Settings

Here you can set which columns to show. For example the District column can be unticked if district is not important.

11.3 Radio List

Open the Radio List with the Radiolist button.



Example of Radio List window

All changes made in the list will be stored in the data base and therefore available to all users.

The list can be searched for values in all columns by entering text or numbers in the search box and pushing Search Next.

The list can be sorted by pushing the headline of each column.

11.4 Tools

Under tools are two menus.

11.4.1 Test Alarm

This shall result in an alarm window and an audible alert.

11.4.2 Reload rules

If the servers data base has been updated with new information, the client needs to have their rules reloaded. This can be done manually with this command or by restarting the application.

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