# Mimer III SoftRadio

# **Connecting radios all over the world**

How to set-up and use

# **Mimer Damm Option**

# Option 3178

Select Contact				Recent Private Calls				Messages and Status		
Name	ISSI	Reg.	^		Name	1551 🔶			Name: Message	
SSBF SRG3900	231494	×		То	SRG3900 SSAB	1992116		То	SRG3900 SSAB: Fire Alarm	
SC21 SSAB	1992130	×		To	SRG3900 SSAB	1992116		To	SRG3900 SSAB: Coffey	
SC21 SSAB	1992131	×							and cake in lunch rooom at 12	
SRG3900 SSAB	1992116	1								
SC20 SSAB	1992114	×								
SC20 SSAB	1992117	×								
FOAB SSAB	154199	×								
SC21 SSAB	1992132	×								
Attunda SC20	235168	×								
SRG3900 SSAB	1992101	*								
Attunda 5C20	235169	*								
Attunda SC20	235170	*				V		_		
Attunda SC20	235204	×			Show call details.	• [	S	how	message	
	235113			Priva	te Call		Send	Mess	age or Status	
Attunda SC20	235114			SRG	900 SSAB					
Attunda SC20 Attunda SC20	235119									

Release date Dec 15, 2020

This guide will help with the setup and use of your **Mimer Damm dispatch Option**.

Please also refer to the standard manual for Mimer SoftRadio and the web pages <u>www.lse.se</u>, <u>www.lse.se/damm</u>.

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# 2 General

**Mimer SoftRadio** is a dispatch system that handles radios, intercoms and phones from a common PC GUI.

The most common setup is that fixed radio units are connected through a network interface and IP to the SoftRadio operator PC.

The **Damm Option** makes it possible to connect the SoftRadio dispatcher directly to a Damm TetraFlex infrastructure, without a fixed radio. The dispatcher then gets the possibility to handle all functions in the Tetra system from his SoftRadio GUI. This means that he can handle Tetra calls from the same GUI and the same headset as he does for ordinary radio calls and phone calls.

The Damm Option requires no extra hardware apart from a license dongle provided by Damm. Connection is made over IP to your Damm infrastructure.



Example of SoftRadio with three radios (DMR, Marine and Airband) and one Tetra system with two talkgroups attached

# 3 Damm Option installation

#### 3.1 Recommended hardware and software

The PC running the Damm Option also needs to have **Mimer SoftRadio XL** installed.

Mimer SoftRadio needs to be version 3.5.2.4 or higher for the Damm Option to work.

#### 3.2 Software installation

Run the installation from the supplied USB stick or online download.

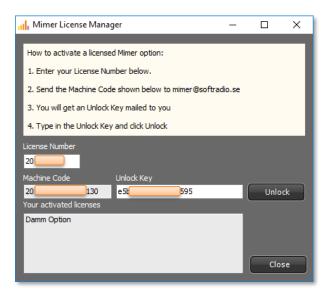
The installation will setup the Damm Option. Restart Mimer SoftRadio.

#### 3.3 Software activation

When starting the option, you will be asked for an unlock code. You get the code by emailing your license number and a machine code as asked for on the screen. Your email will be answered with the unlock code.

MimerSoftRadio	x
Mimer Damm Option requires a License. Use Mimer License Manager to activate the optio	n.
ОК	

Open the Mimer License Manager from the list of programs under Mimer SoftRadio v4, in the PC's program menu.



After entering the received unlock code this process is ready and need no further attention until the day you reinstall on the same, or another PC.

#### 3.4 Damm license dongle

Insert the operator license dongle supplied together with the Damm TetraFlex system.

# 4 Configuration

You need to configure a few things in order to connect to the Damm TetraFlex system.

#### 4.1 Damm system settings

Open the Settings menu in SoftRadio and select the DAMM Dispatcher tab.

Set the two variables, or use the defaults, and then push "Open DAMM GW connections dialogue".

Settings						
		User	ID: 13	Username:	Mimer Operator 1	3
Appearance Controls M	lultiple Hotkeys	Marine Calls	Custom Functions Pane	el SIP Phone	DAMM Dispatcher	Installed options 🔳 🕨
	Start I					
			ок	Cancel		

#### Damm Dispatch Tab in Settings

#### 4.1.1 Set the Start ID for Damm devices.

This is how the talkgroups used in the Damm system are identified within the SoftRadio system. Default is set to 200.

Usually dispatchers are numbered from 10-99, radio devices from 100-190 and for example VoiceLog at 191. This basically leaves 200-240 for the Tetra talkgroups.

#### 4.1.2 Identifier for DGNA groups

For the system to recognize which talkgroups are standard and which are used as dynamic talkgroups (DGNA) by the system, a text string is set in the talkgroup name when set up in the Damm system.

Enter this text string here so that SoftRadio can identify the dynamic groups.

Default is set to DGNA.

#### 4.2 Damm Connection Configuration Dialogue

Open the dialogue through the key "Open Damm GW connections dialogue"

🥎 20004 - Cor	nection Configuration	×
Connection	n Configuration	
ID selection:	<ul> <li>User prompted</li> <li>User no.</li> <li>SSI</li> </ul>	PIN Code: O Prompt user
SSI:	20004	
OM Port:	42382	
Auth. Key:		Network authentication
Gateway 0:	192 . 168 . 0 . 100	Description:
Gateway 1:		Description:
Gateway 2:		Description:
Gateway 3:		Description:
Gateway 4:		Description:
Gateway 5:		Description:
Gateway 6:		Description:
Gateway 7:		Description:
Gateway 8:		Description:
Gateway 9:		Description:
	[	OK Cancel Apply

Set the:

- ID Selection to SSI, and then the number provided for the operator
- PIN Code as supplied by Damm
- OM Port as supplied by Damm
- Check the "Gateway 0"-tickbox and enter the IP address to the system.

Press "Apply".

# 5 Basic functionality

Please note that the functions in your Damm dispatcher will depend highly on what functions your Damm system is programmed to allow you.

The main dispatcher window shows all your contacts, your recent calls and your recent messages.

From this menu you handle the private calls and the messages. Here you also set up which talkgroups you would like to monitor and talk on.

After setting up the talkgroups you are ready to use the system.

#### 5.1 Setting up talkgroups

Open the Damm Dispatcher main window by clicking the name bar in SoftRadio.

Select Contact				Recent Private Calls			Mes	Messages and Status		
lame	ISSI	Reg.	^		Name	ISSI 📥			Name: Message	
SBF SRG3900	231494	×		From	16777184	16777184		From	16777184: Time for lunch!	
C21 SSAB	1992130	*		То	SRG3900 SSAB	1992101		From	16777184: Gjm	
C21 SSAB	1992131	*		То	SRG3900 SSAB	1992116	*	Contract.		
RG3900 SSAB	1992116	W.		То	SRG3900 SSAB	1992116		То	SRG3900 SSAB: Fire Alarm	
C20 SSAB	1992114	×		То	SRG3900 SSAB	1992116		То	SRG3900 SSAB: Coffey	
C20 SSAB	1992117	×							and cake in lunch rocom at 12	
OAB SSAB	154199	×								
C21 SSAB	1992132	×	12							
	1992132 235168	× ×	I							
ttunda SC20	all second	× × ✓	I							
ttunda SC20 RG3900 SSAB	235168	× × ×	l							
ttunda SC20 RG3900 SSAB ttunda SC20	235168	× × × × ×	l			v				
C21 SSAB ttunda SC20 RG3900 SSAB ttunda SC20 ttunda SC20 ttunda SC20	235168 1992101 235169	× × × × ×	I		Show call details			Show	message	
ttunda SC20 RG3900 SSAB ttunda SC20 ttunda SC20	235168 1992101 235169 235170	× × × × × ×		Private			_		message	
ttunda SC20 RG3900 SSAB ttunda SC20 ttunda SC20	235168 1992101 235169 235170 235204	× × × × × × × ×		Private			_			
ttunda SC20 RG3900 SSAB ttunda SC20 ttunda SC20 ttunda SC20 ttunda SC20	235168 1992101 235169 235170 235204 235113	× × × × ×		Private	e Call		Sen	d Mess		

Damm Dispatcher, main window

Click "Talkgroups" on the menu bar in the main window, the dialogue below opens.

Monitored Talkgrou	os				
Available Talkgroups				-Monitored Talkgroup	
Name	GSSI	4		Name	GSSI 📥
Grupp 100	100100			Grupp 100	100100
Grupp 200	100200	=		Grupp 200	100200
Grupp 300	100300				
Grupp 400	100400				
Grupp 500	100500				
Grupp 600	100600				
Grupp 700	100700		Add ->		
Grupp 800 (GB)	100800		<- Remove		
Grupp 900 (All-Anrop	100900				
TG1 FM DEMO 94795	9479531				
TG2 FM DEMO 94795	9479532				
TG3 FM DEMO 94795	9479533				
TG4 FM DEMO 94795	9479534				
TG5 FM DEMO 94795	9479535				
TG6 FM DEMO 94795	9479536			Movel	Jp
G_DGNA FM DEMO 9	9479537	-		Move Do	own
Close				Apply	/

Selection of monitored talkgroups

Click the talkgroups that you would like to monitor in the "Available" list and move them to the "Monitored" list with the "Add button". Remove unwanted talkgroups with the "Remove button".

You can then sort them with the "Move Up" and "Move Down" keys.

After pressing "Apply" the selected talkgroups will be shown and used in SoftRadio in the same manner as ordinary radios connected to SoftRadio.

nd, Mimer SoftRadio File View Settings St Marine Day Shift Sto		ward 1	C	_	_		_ = x
DMR	Marine	Air	DAMM SC.	TG: Grupp 100	TG: Grupp 200	s	lect Audio device
<mark>≫ I+I }</mark> Ch 1 Electricity	1W 20 PORT OPR	118.025	Selected Contact: SRG3900 SSAB	oroup Call on Grupp 100		<b>)</b>	
						ſ	

The selected talkgroups show up in SoftRadio

#### 5.2 Allowing the talkgroups to be shown

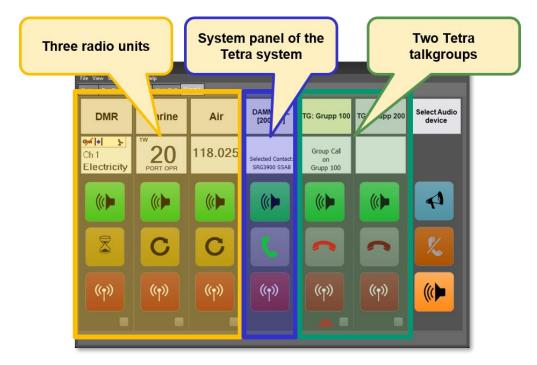
If the SoftRadio GUI is set up so that the operator may select the devices that shall be shown on his screen. (This is mainly used when the "tabs" option is used.) Then you also need to tick in the boxes that shows the Tetra system and the talkgroups on the selected tab.

## 6 User Interface

The standard GUI of SoftRadio will be expanded with rows or columns for the Tetra system and for the talkgroups.

The look on your GUI will depend on the number of radios that are connected and the number of talkgroups that you monitor.

In the example here, the devices are set up in columns, and you have three radios plus the Tetra system. The Tetra system is set up with monitoring of two talkgroups.



Example with three radios, one Tetra system and two talkgroups

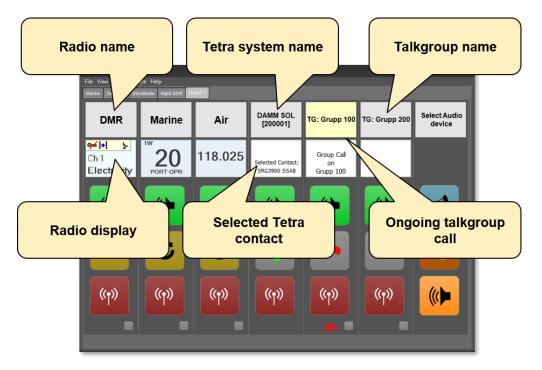
The area normally used for the radio display, is in the Tetra panels used for showing information on selected radio, incoming calls, ongoing talkgroup calls etc.

The display can also show icons telling that an SDS message has arrived or that an emergency call has been received. Further described later in this manual.

Operator s	ettings
	rator ID: 13 🕃
📃 Block	user setups
🔽 Allow	users to select connections
_	
III Mimer	5oftRadio
File View	Settings Style Help
Marine D	🤌 Edit Cross-Patch groups 🛛 rd 1
	Select devices
DAM	🔌 Settings
	0001] IS. Stupp Too T

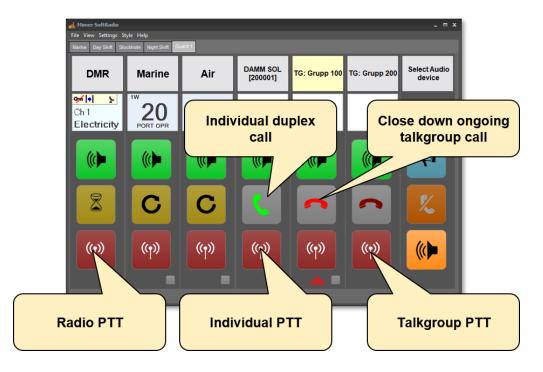
#### 6.1 Information

The display area shows who is calling or the radio you have selected.



#### 6.2 Keys

There are some unique keys used for Tetra calls.



# 7 Using Talkgroups

Listening and transmitting on talkgroups is the basic communication method in a Tetra network. In SoftRadio this is just as easy as communication over an ordinary radio.

#### 7.1 Talking on talkgroups

Use the PTT button on the talkgroups device panel for transmit. Push to talk and release to listen.

Set the speakers for listening on/off and left/right with the speaker buttons.

#### 7.2 SDS and Status messaging on talkgroups

You can send and receive SDS messages and Status messages on talkgroups. Although it is more common to do this on an individual basis.

Click the name bar of the talkgroup and the message panel will open for that talkgroup.

From this menu you can read and send messages. More info below under SDS and Status messaging.

## 8 Making Private Calls

In a Tetra system you can always select a contact and make a private call to one separate user without other users being able to listen to the conversation.

Select a radio to call by clicking in the contact list or on a post in the history list.

When making a call you can also set a few parameters, described below. Please note that the settings will be left also for your next call if you don't reselect manually.

#### 8.1 Priority Level

Each call can have a priority level.

*Normal* is exactly what it sounds like. Your normal call without any higher priority than usual.

*Preemptive* has a higher priority and will go through even if the system is congested or the user is busy.

*Emergency* has top priority and should only be used in emergency situations. It will also trigger the called radio so that it alerts the user of the emergency. More info further down.





#### 8.2 Simplex call

A simplex private call is done by simply selecting whom to call and then press PTT on either the Dispatcher window or on the main SoftRadio window.

A simplex private call means that you push to talk and release to listen, just as in a talkgroup call. The call is ended with the red handset key.

You can set your simplex private calls between "Hook Call" and "Direct Call". The last selected call type will be used next time if you don't do any changes.

*Hook Call* means that the called radio user needs to answer the call with his PTT key before the call is set up and you can talk to him.

*Direct Call* means that your transmission goes directly to the called radios speaker without the need for the called user to actively answer the call.

#### 8.3 Duplex call

A duplex call is exchanged without the PTT button. Both parties can speak and listen simultaneously like a phone call. This takes more recourses from the Tetra system and should therefore be used with care.

A duplex private call is done by simply selecting whom to call and then press the green handset key on either the Dispatcher window or on the main SoftRadio window. The radio user needs to answer the call with his green handset key on the Tetra terminal.

Either party can end the call with the red handset key.

#### 8.4 History

In the middle of the Dispatch window there is a recent calls list where you can see incoming and outgoing calls. Double clicking on an entry or pushing "Show call" will display more information.



Entries in the list can be deleted by pushing the waste paper basket key. The list will hold 200 entries, then the oldest is deleted.

#### 8.5 Making a direct private call

You can make a private call directly from the SoftRadio main window if the contact you would like to call is already selected.

Just push the PTT for a simplex call or the green handset key for a duplex call.



#### 8.6 Answering Private calls

#### 8.6.1 Simplex Private calls

When a simplex private call is received, the main Tetra device panel will show this in the display together with a ringing tone and a green blinking indication. A text will tell who is calling.

You can then choose to answer the call with the **PTT button** or to discard it by pushing the red handset key.

#### 8.6.2 Duplex private calls

When a duplex private call is received, the main Tetra device panel will show this in the display together with a ringing tone and a green blinking indication. A text will tell who is calling.

You can then choose to answer the call with the **green handset** key or to discard it by pushing the red handset key.

## 9 SDS and Status messaging

Sending and receiving text and status is mainly done on an individual basis, but can also be done on a talkgroup basis.

#### 9.1 SDS message to an individual radio

In the main dispatch window select a contact to send the message to by clicking in the contact list or clicking on an entry in the message history list, and then click "Message to selected contact".

Choose a predefined message from a template or write a new message in the Message box.

Select if you would like to have a report when the message has been delivered and/or when it has been consumed (opened).

Send the message with the Send key.

#### 9.2 Status to an individual radio

In the main dispatch window select a contact to send the message to and then click "Status to selected contact".

Choose a predefined message from the list.

Status messages has no auto report system, so you cannot choose to get a message when it is delivered.

Send the message with the Send key.



II D DAMM SOL T g Duplex call from SRG3900 SSAB





#### 9.3 Reading a message

Incoming messages will be shown with a line in the Message and Status list. Double click on the message or push "Show Message" to read it.

#### 9.4 Message icons

All incoming and outgoing messages get a small icon attached to it. This will tell the status of the message. Incoming, outgoing, delivered, consumed etc.

Incoming and unread messages will also be shown in the main SoftRadio window.

These are the icons that are used with the messages:

Sent Messages:	Received messages:
No Requested Report	SDS messages
SDS is sent	SDS received, but not opened
Request for "Delivered" Report	SDS received and opened
SDS sent but not delivered	Emergency messages
SDS sent and delivered	Emergency alarm received
Request for both "Delivered" and "Consumed"	Emergency alarm received and opened
SDS sent but not delivered	Status messages
SDS sent and delivered but not consumed	Status received
SDS delivered and consumed	Status received and opened
Common report	
SDS could not be sent through the system	
Status messages	
Status sent	
Status sent and delivered	
X Status could not be sent through the system	



#### 9.5 History

At the right of the Dispatch window there is a message list where you can see all incoming and outgoing messages both read and unread. Double clicking on an entry or pushing "Show message" will display more information.

Entries in the list can be deleted by pushing the waste paper basket key. The list will hold 200 entries, then the oldest is deleted.

#### 9.6 Edit message templates

At the menu bar of the main Dispatch window push "Settings" and then select "Edit message templates".

Here you can define templets to speed up message transmission of things you often send as text. After making a new template push the save button.

#### 9.7 Edit status message codes

At the menu bar of the main Dispatch window push "Settings" and then select "Edit status message codes".

Status message codes are predefined messages that are sent over as a numeric value to the radio to save resources in the Tetra network. Each message that you predefine needs also to be predefined in the exact same way in the portables and mobiles. If not, you risk to send one message and the radio user will receive another message or just the numeric value.



Template Name		4
Fire	Fire in building 34	
Coffey	Coffey and cake in lunch rooom at 12	
New Template	Enter any text here that becomes a template	
Rolands Phone	070-666 80 80	
Bond	My name is Bond, James Bondi	
Testmal	This is a message ABCDEFGH	
Test message	Test message 12345	



# 10 Dynamic Groups

Dynamic Groups (DGNA) are extra talkgroups that can be assigned temporarily to field radios. For example, if you have an incident and need to make a new group of users that normally do not have common talkgroups in their radios.

To use a dynamic group, you need to assign radios to the group. Depending on how the radios are programmed they either need to acknowledge the assignment or they enter directly into the group.

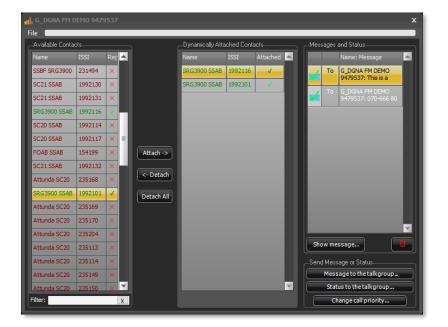
A dynamic group is meant only to be used for a short period of time. Therefor you should detach the users from the group after you are finished with the task that was the reason for the group.

For easy recognition of the DGNA groups their names have a blue

font. Defining the DGNA groups are done under "Configuration" earlier in the manual.

#### 10.1 Attach users to DGNA

Click the name bar of the dynamic group you would like to assign users to.



DGNA window

Assign users to the group by selecting them and then push "Attach".

#### 10.2 Detach users from DGNA

Select attached radios one by one and push "Detach" or push "Detach all".

#### 10.3 Messages

In the same manner as for ordinary talkgroups you can send and receive SDS and status messages to/from the whole group.



# 11 Emergency Call Handling

#### 11.1 Receiving an emergency call

If an emergency call is sent on a talkgroup the dispatch GUI will react to this both visually and audible.

The talkgroup display window will show an emergency icon and the background will become pink. When the call is answered the pink colour will be reset.

As long as the pink colour is there, the emergency priority is used in the Tetra system.

#### 11.2 Sending an emergency call

You can select a priority level for each private call. If you set the level to emergency you will get the highest possible priority in the system. To make you aware that you have chosen this priority your call panel and your device panel's window will be coloured pink.

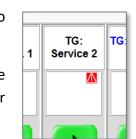
Make Private Emergency Call to Maint. Radio 1
Call Settings
ГОТ 💊 РТТ

This can also be done on each talkgroup.

#### 11.3 Emergency Voice Streams

In a Damm-system there is a cost for each voice stream used by the operator. When you order the USB stick for the operator, you need to specify how many voice streams you would like to have for the operator. If you have ordered to few voice streams, this could become a problem at "rush hour" in the Tetra system, and you miss a call.

SoftRadio makes sure that this never happens to an emergency call. When using SoftRadio to Damm, an incoming emergency will disconnect another call if there are no available voice streams, ensuring that the emergency gets through.



# **12 Other Functions**

#### 12.1 The Contact List

The contacts in the list are fetched directly from the Tetra infrastructure. This means that you always have a correct list of users in the system.

The list will also show, in real time, which of the radios that are registered to the system. You can only call and send messages if the radio is registered.

Please note that a registered radio can be temporarily unavailable, for example when being in radio shadow from the system, but still show as available in the list.

#### 12.1.1 Contact filtering

The contact list can be filtered (searched) by entering a name, part of a name or a number in the box below the list. The entry for filtering can be anywhere in the name.

#### 12.2 Call back

When clicking an entry in the "Recent Calls" list the radio of that entry is highlighted in the contact list and selected below as your next call. This makes it easy to make a call back to a missed call or a recently called user.

#### 12.3 Window size

The size of the main window and the talkgroup windows can be set in four different sizes. The settings are found under "Size" in the top menu bar.

# 13 Optional functions

#### 13.1 Cross-Patching of calls

With the option **Mimer CrossPatch** installed, Tetra talkgroup calls can be manually patched together with ordinary radio calls, or with phone calls if a phone option is installed in SoftRadio.

#### 13.2 Recording of calls

With the server **Mimer VoiceLog** installed in your Mimer SoftRadio system all audio is recorded for both ordinary radio calls and Tetra calls. All recordings are marked with a date and a time stamp.

#### 13.3 More SoftRadio functions

The Mimer SoftRadio system can handle many different devices and functions. Most of the functions are compatible with the option for DAMM-systems. Please see the manuals and the web pages for SoftRadio for more information.

## 14 Error messages

#### 14.1 Cannot connect to Gateway – API is started

This means that the API is running in the operator PC, you have the dongle connected, but SoftRadio cannot get in contact with the Damm base station.

Possible problems could be:

- Wrong information entered; IP-address, password etc.
- The Damm Gateway will not allow the connection
- No IP connection to the base station
- No power at the Damm Gateway

#### 14.2 Cannot connect to Gateway – License fail

This means that the dongle is missing from the operator PC or that its license information is incorrect.

#### 14.3 No file access

This means that the settings files can't be red.

#### 14.4 No network

The operator PC has no network connection.

#### 14.5 All licensed voice streams are in use

The DAMM system only allows as many voice streams to each operator as the dongle specifies. If there are more calls than the dongle allows, one of these messages will be shown:

- The maximum number of licensed audio streams are in use. Further calls will not be accepted.
- The maximum number of licensed audio streams have been exceeded. A call has been disconnected.

The solution is, to either monitor less talk groups, or to upgrade the dongle to get more voice streams.

Please note that this does not affect an incoming emergency call, since with Mimer SoftRadio, it will always get a voice stream.







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