

# FLMSG Users Manual

2.0

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# Chapter 1

## FLMSG Users Manual - Version 2.0

THE AMERICAN RADIO RELAY LEAGUE <b>RADIOGRAM</b> VIA AMATEUR RADIO							
NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
100	ROUTINE	HXA01	W1HKJ	15		1115L	JUN 05
TO AMERICAN RED CROSS				THIS RADIO MESSAGE WAS RECEIVED AT KK5VD 555-555-5555 Robert Madison, AL 35758			
PHONE NUMBER 5555555555							
THIS IS TO INFORM YOU THE SUPPLIES REQUESTED FROM RADIOGRAM NUMBER 88 HAVE BEEN FULLFILLED							
RWS							

### 1.1 Fast Light Message

FLMSG is a simple forms management editor for the amateur radio supported standard message formats.

These current include:

- [ICS-203](#) - Organization Assignment List
- [ICS-205](#) - Incident Radio Communictions Plan
- [ICS-205A](#) - Comms List - special USCG Plan
- [ICS-206](#) - Medical Plan
- [ICS-213](#) - General Message Form
- [ICS-214](#) - Unit log
- [ICS-216](#) - Radio Requirements Worksheet
- [ICS-309](#) - Incident Communications Log
- [HICS-203](#) - Hospital Organization Assignment List

- [HICS-206](#) - Hospital Staff Medical Plan
- [HICS-213](#) - Hospital Incident Message Form
- [HICS-214](#) - Hospital Operational Log
- [MARS Daily](#) - Military Auxiliary Radio System Daily report
- [MARS IN/EEI](#) - Military Auxiliary Radio System IN/EEI report
- [MARS Net](#) - Military Auxiliary Radio System net report
- [MARS Army](#) - Military Auxiliary Radio System Army formatted message
- [MARS Navy](#) - Military Auxiliary Radio System Navy formatted message
- [IARU](#) - International Amateur Radio Union standard message
- [Radiogram](#) - NTS message
- [Red Cross Safety & Welfare](#) - standard report
- [Red Cross 5739](#) - On Site Detailed Damage Assessment
- [Red Cross 5739A](#) - Detailed Damage Assessment Supplemental Worksheet
- [Red Cross 5739B](#) - Area Assessment Worksheet
- [Plaintext](#) - generic message format
- [CSV-text](#) - Comma Separated Value text file (spreadsheet)
- [Blank](#) - very simple text format with no preset fields
- [Drag and Drop](#) - target control (widget) that accepts either a data file (.203 etc), a wrapped data file (.wrap), or the text associated with a data file. The later may be a copy and paste from another application such as fldigi or a text editor.
- [Transfer](#) - transfer any file using FLMSG wrap and header controls.

It's data files are pure ASCII text that can be sent from point to point using the internet, amateur radio, or other electronic link. The data files are designed to minimize the transfer size. This is particularly important on amateur HF. The data file and the transfer file are one in the same. The transfer file is encapsulated using a process that is compatible with flwrap. Encapsulation allows the program to confirm the received file integrity.

The data file may be sent using flamp or wrapped by flwrap for external transmission. You might want to do that if the file is to be transmitted via internet or a protocol not contained in fldigi. Files transferred in this way will not automatically open in flmsg.

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## 1.2 Menu's

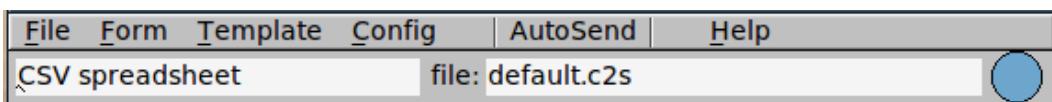




Figure 1.1: Form Name



Figure 1.2: File Name



Figure 1.3: Drag and Drop Target

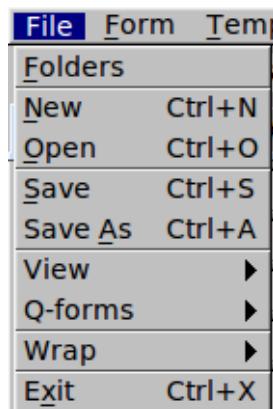


Figure 1.4: File Menu

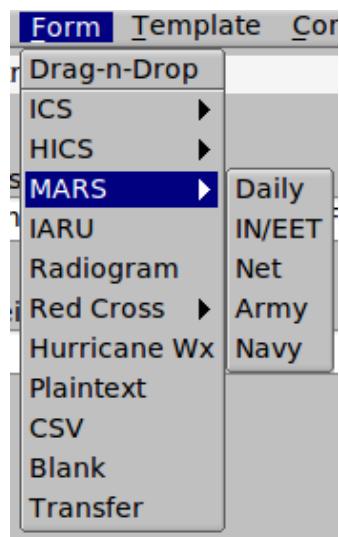


Figure 1.5: Form Menu



Figure 1.6: Template Menu

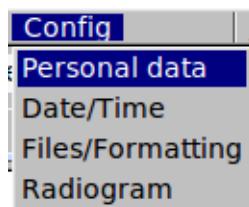


Figure 1.7: Config Menu

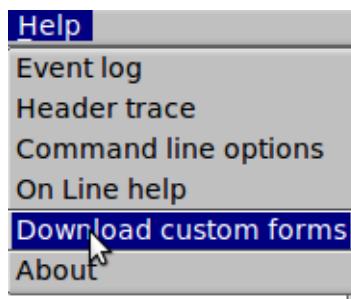


Figure 1.8: Help Menu

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### 1.2.1 File Menu

New - clear all fields and name the default file "new.f2s" (new.m2s for radiogram)

Open - open an existing file flmsg data files have the extension

- ".i2s" for IARU form
- ".203" for ICS-203 forms
- ".205" for ICS-205 forms
- ".25A" for ICS-206A forms
- ".206" for ICS-206 forms
- ".213" for ICS-213 forms
- ".214" for ICS-214 forms
- ".216" for ICS-216 forms
- ".H203" for HICS-203 forms
- ".H206" for HICS-206 forms
- ".H213" for HICS-213 forms
- ".H214" for HICS-214 forms
- ".mds" for MARS daily report
- ".mis" for MARS IN/EEI report
- ".mns" for MARS net report
- ".nas" for MARS Army message
- ".nns" for MARS Navy message
- ".m2s" read as "message 2 send" for radiogram forms
- ".sws" for Red Cross Safety & Welfare report
- ".39s" for Red Cross 5739
- ".3as" for Red Cross 5739A
- ".3bs" for Red Cross 5739B
- ".p2s" for plain text, generic forms
- ".c2s" for comma-separated-value spreadsheets
- ".b2s" for blank forms

Save - save the current file to the name in the "file:" display box

Save As - save using a new filename that the user provides

View - write the data to specified type of file

Html delivery - viewed in default browser, contains only those elements sent to final recipient

Html file copy - viewed in default browser, contains ALL fields including record keeping

Text - viewed in default text editor - suitable for CW / Voice transmission

#### Q-forms

Import - Import the data fields from a Qforms eXtended Markup Language (xml) file

Export - Export the data fields to a Qforms compatible xml file

#### Wrap (Import / Export / AutoSend)

Import the data fields from a Wrapped data file. If the data file is corrupt you will be given the opportunity to either allow flmsg to recover as many fields as possible or to view the file using the default text editor.

Export the data fields to a Wrapped data file

Create a wrapped datafile and save in the NBEMS.files/WRAP/auto directory. If running, fldigi will find and automatically transmit the file.

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### 1.2.2 Template

Load - load an existing template file - the default extension for the supported files are:

IARU template - ".i2t"  
ICS-203 template - ".203T"  
ICS-205 template - ".205T"  
ICS-205A template - ".25T"  
ICS-206 template - ".206T"  
ICS-213 template - ".213T"  
ICS-214 template - ".214T"  
ICS-216 template - ".216T"  
HICS-203 template - ".H203T"  
HICS-206 template - ".H206T"  
HICS-213 template - ".H213T"  
HICS-214 template - ".H214T"  
MARS daily template - ".mdt"  
MARS IN/EEI template - ".mit"  
MARS Net template - ".mnt"  
MARS Army template - ".nat"  
MARS Navy template - ".nnt"  
Radiogram template - ".m2t"  
Red Cross Safety & Welfare template - ".swt"  
Red Cross 5739 - ".39t"  
Red Cross 5739A - ".3at"  
Red Cross 5739B - ".3bt"  
Plain text template - ".p2t"  
CVS-spreadsheet - ".c2t"  
Blank text template - ".b2t"

Save - save the current form as a template file, using the default (or current) filename  
Save As - save the current form as a template file, user provides the filename

**Note:** data files and template files for ICS213 are identical. The only difference is their location in the computer directory structure and their extension. Message files and template files maintain their uniqueness by virtue of their file name. If you reuse a filename the old data will be lost.

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## 1.3 File locations

On XP: C:\Documents and Settings\<username>\NBEMS.files  
On Vista: C:\Users\<username>\NBEMS.files  
On Linux: /home/<username>/.nbems  
On Puppy: /root/.nbems  
On OS X: /home/<username>/.nbems

Data files are located in the sub directory "ICS/messages"  
Template files are located in the sub directory "ICS/templates"  
View files (.rtf, .html, .txt) are located in the "ICS/" subdirectory.

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## 1.4 Compression

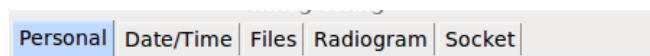


The compression panel is at the bottom of the main dialog. You can elect to compress any file during transmission. Compressed data must be converted to a character set that can be transmitted by fldigi. The choices are base-64, base-128 and base-256. A limited subset of digital modem types can be selected from the 2nd combo box. If flmsg and fldigi are executing concurrently then flmsg will command fldigi to change modem when a new modem type is selected in flmsg. Each time these controls are changed (when a change is made to the form itself) the status blocks for transfer size and number of seconds to transfer is updated.

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## 1.5 Configuring

There are five separate configuration dialog tabs for FLMSG:



Call:	W1HKJ
Tel:	2568283105
Name:	David Freese
Addr:	106 Whitfield Drive
City/St/Zip:	Toney AL 35773

Personal data that will be used on various forms. The Call is a required field. If you leave it blank the program will nag you when you try to save a file, create a wrapped file, or use the autosend function.

<input checked="" type="radio"/> YYYY-MM-DD	<input checked="" type="radio"/> hhmmL
<input type="radio"/> YYYY-DD-MM	<input type="radio"/> hh:mmL
<input type="radio"/> MM/DD/YY	<input type="radio"/> hhmmZ
<input type="radio"/> DD/MM/YY	<input type="radio"/> hh:mmZ
	<input type="radio"/> hhmm UTC
	<input type="radio"/> hh:mm UTC

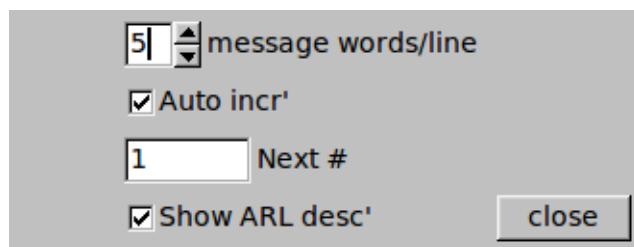
- Date format - select the date format that will be used for both ICS213 and Radiogram
- Time format - select the time format that will be used for both ICS213 and Radiogram

<b>Wrap</b>	
<input type="checkbox"/> Open folder when exporting	
<b>Naming Files</b>	
<input checked="" type="checkbox"/> Callsign	<input type="checkbox"/> Date-time
<input checked="" type="checkbox"/> Serial #	<input type="text" value="3"/> Next #
<b>MARS roster file</b>	
<input type="text" value="MARS_ROSTER.csv"/> <input type="button" value="Find"/>	
<b>Html message text</b>	
<input checked="" type="checkbox"/> Word wrap at <input type="text" value="72"/> characters	
<input type="checkbox"/> Force compression on xmt data	

- Wrap - automatically open the target folder (directory) when the file is exported
- All flmsg data streams can be compressed to reduce transmission time. The compression will only be applied to the data part of the transmission, and it will only occur if the compression actually reduces the size of the file. The compression information is recorded in the event log (see below).
- Naming files - automatic file name generation as:  
 CALLSIGN-YYYYMMDD-HHMMSS(Z)-NNNN where  
 CALLSIGN is the operators callsign  
 YYYYMMDD is year, day, month  
 HHMMSS is hours, minutes, seconds local or Zulu at time file is created  
 NNNN is an auto incremented serial number  
 You can elect to use any or none of the autogeneration components  
 Filename extensions are f2s for ICS-213 data, f2t for ICS-213 templates and  
 m2s for radiogram data.
- Radiogram serial numbers can be auto-incremented. The auto-increment number is also used for the file name. In the example shown the next Radiogram will be number 104 and the associated file will be W1HKJ-104.m2s
- MARS roster file - Callsign entries in the MARS forms is from a combo box that is filled in from a configuration file. This file is a simple CSV, Comma Separated Value, text file. An example of its contents is:

```
CALL, LNAME, STATE, BCALL, POSITION
AAR1AA,LNAME1,VT,
AAR1AB,LNAME2,NH,AAQ1EQQ,RS TUV
AAR1BC,LNAME3,ME,AAQ1ERR,AB CDE
```

Note that empty fields are still separated by a comma. This file can be managed using a text editor or any spreadsheet program.



- Radiogram format -
  - # words per line to be used when formating the radiogram message text
  - Auto increment the filename numbering
  - Assign a value to the next auto increment number
  - Add the ARL numeric descriptors to end of html form

Fldigi ARQ Addr:

Fldigi ARQ Port:

Web Server Addr:

Web Server Port:

Sync modem to fldigi

Change modem with autosend

**Default**

Configure server interface to fldigi. Used for xmlrpc interface to fldigi. Allows flmsg to control fldigi modem selection for a limited subset of the fldigi modem types.

Configure html forms server, used to edit and display custom html forms.

Sync modem to fldigi - flmsg modem type will follow fldigi selection.

Change fldigi modem with autosend - send modem change signal to fldigi just prior to beginning flmsg transmission. fldigi does not automatically return to original modem.

Default - restore socket address/port pairs to the default settings.

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## 1.6 Auto Send

flmsg can connect directly to fldigi using fldigi's ARQ socket service. Fldigi acts as the server and flmsg the client. Pressing the "AutoSend" button will initiate an immediate transfer of an encapsulated file to fldigi. You should have fldigi prepared to accept the file for transmission. The frequency (radio and audio) and modem type should be correct and if you are in a QSO then your contact should be prepared to receive the transmission.

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## 1.7 Qform data file

flmsg can read and write Qform ICS213 data files. The Qform data file is larger by virtue of the xml structure. The file size ratio is less when the content is larger.

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## 1.8 Viewing the data in a printable format

The program can produce a viewable document in ASCII text and Hypertext Markup Language (html) file formats. After creating the document flmsg will request the file to be opened by the default viewer / editor for that type of document.

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## 1.9 Html Text Format

The html Text Format file that the File/Write menu item produces can be opened with any web browser program. Use that software for printing the report.

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## 1.10 Command line parameters

Flmsg may be invoked from the command line (or parameters added to the launcher target).

```
-help
-version
--flmsg-dir "full-path-name-of-folder for all FLMSG folders"
--auto-dir "full-path-name-of-folder for autosend files"
auto-dir and flmsg-dir can be separate and unique
-p FILENAME - print and exit
-b FILENAME - print and stay open
```

The –p and –b options are used by fldigi when it automatically opens flmsg to display a received flmsg data file.

The –flmsg-dir parameter is used to change the default location of all of the files associated with flmsg. This should match with the same command parameter passed to fldigi. This allows the user to run multiple instances of flmsg / fldigi with each keyed to the other. For example the user might have separate flmsg/fldigi pairs for HF, VHF etc.

The default is:

```
XP - C:\Documents and Settings\<username>\NBEMS.files\
Vista/Win7 - C:\Users\<username>\NBEMS.files\
Linux/Unix/OS X - $HOME/.nbems/
```

The –auto-dir parameter is used to further change the name of the folder used to contain the file that is sent automatically by fldigi. Fldigi's command line parameter –auto-dir must match. This is in addition to and over rides the –flmsg-dir parameter.

The default is:

```
XP - C: and Settings<username>.files<br> Vista/Win7 - C:<username>.files<br> Linux/Unix/OS X - $H←
OME/.nbems/WRAP/auto/
```

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## 1.11 Event Log

Events are recorded at various debugging levels (default is INFO) to assist the user in reporting problems to the developers. The most recent event is at the top of the dialog. The event log is opened from the Help | Event Log menu item:

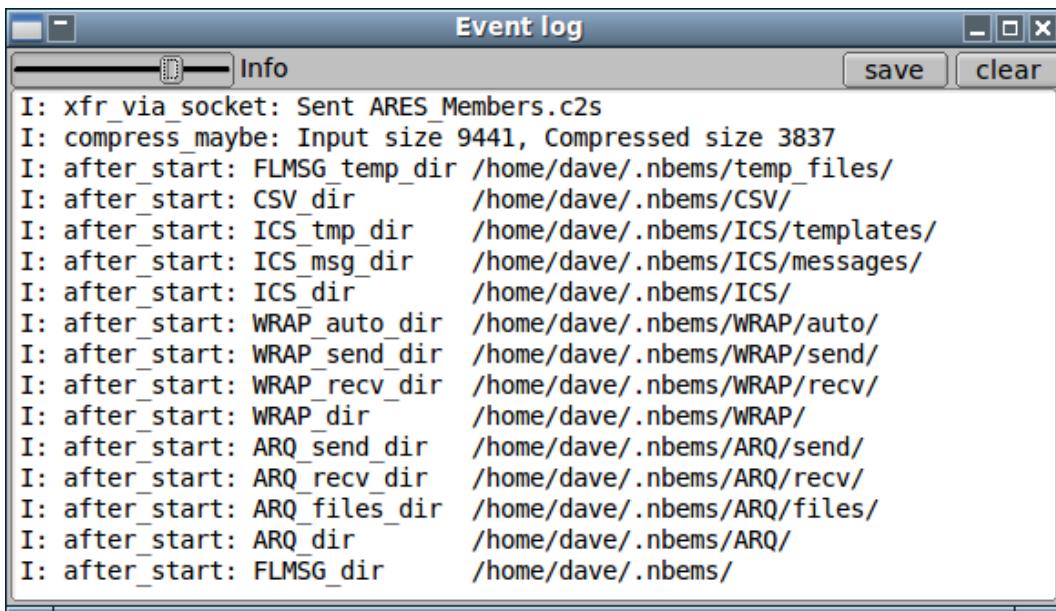


Figure 1.9: Event Log

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## 1.12 Headers

A new feature in this version of fldigi is the ability of the program to track origination and modification of many of the message types. The program also keeps track of the stations in the transmit path for a specific message.

An example plaintext message:

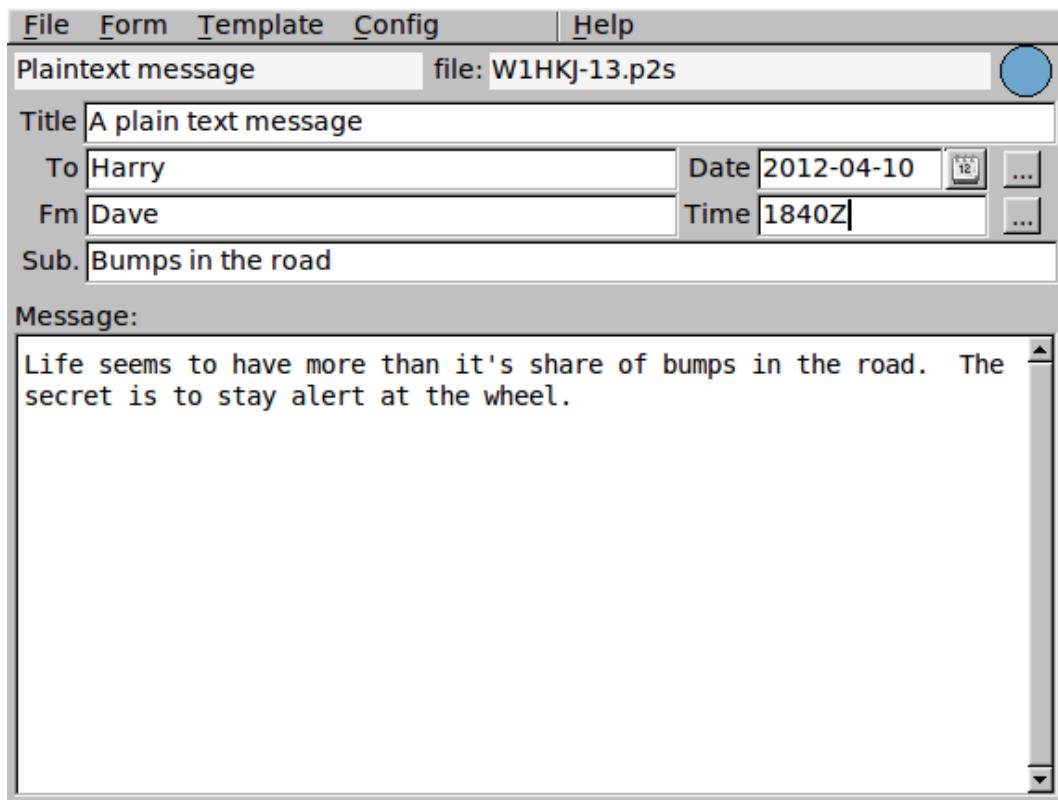


Figure 1.10: Plain Text Msg

When exported as a wrap file becomes:

```
[WRAP:beg] [WRAP:lf] [WRAP:fn W1HKJ-13.p2s]
<flmsg>1.1.14
:hdr_fm:19 W1HKJ 201214042019Z
:hdr_ed:19 W1HKJ 201210041840Z
<plaintext>
:tt:20 A plain text message
:to:5 Harry
:fm:4 Dave
:dt:10 2012-04-10
:tm:5 1339L
:sb:17 Bumps in the road
:mg:105 Life seems to have more than it's share of bumps in the road. The
secret is to stay alert at the wheel.

[WRAP:chksum A358] [WRAP:end]
```

The :hdr\_fm: is a first-to-last list of sending stations, each separated by a new-line character.

The :hdr\_ed: is a first-to-last list of editing / modifying stations, each separated by a new-line character. Each entry consists of the station callsign and the Zulu date time in YYYYMMDDMMHH format.

These can be viewed from within flmsg using the "Help | Header Trace" menu item:

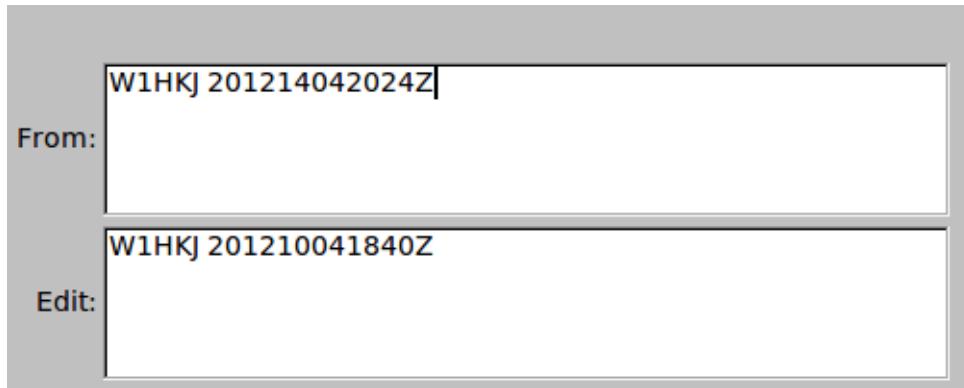


Figure 1.11: Header Trace

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## 1.13 Custom Forms

flmsg now has the capability of working with locally prepared custom forms. Custom forms may be created either using a special comma separated value (csv) format or with html forms.

### 1.13.1 Custom Html Forms

The basis of a custom flmsg form is an html form.

You can use LibreOffice to create a form and then export it to an xhtml format. You can also use LibreOffice to import an MS word document first. LibreOffice is available for free for all of the operating systems on which flmsg will execute.

You then use a text / web editor to add some elements; Geany, Gedit, Notepad++ / Bluefish, Kompozer are suitable editors.

The html flmsg form must include these statements:

```
<META NAME="EDITABLE" CONTENT="true">
<META NAME="MENU_ITEM" CONTENT="Example">
```

in the "header" (between the <HEAD><> and </HEAD><> tags) of the html file:

The second line, "CONTENT=" value is the name of the form as it will show up in flmsg in the Form, Custom menu:

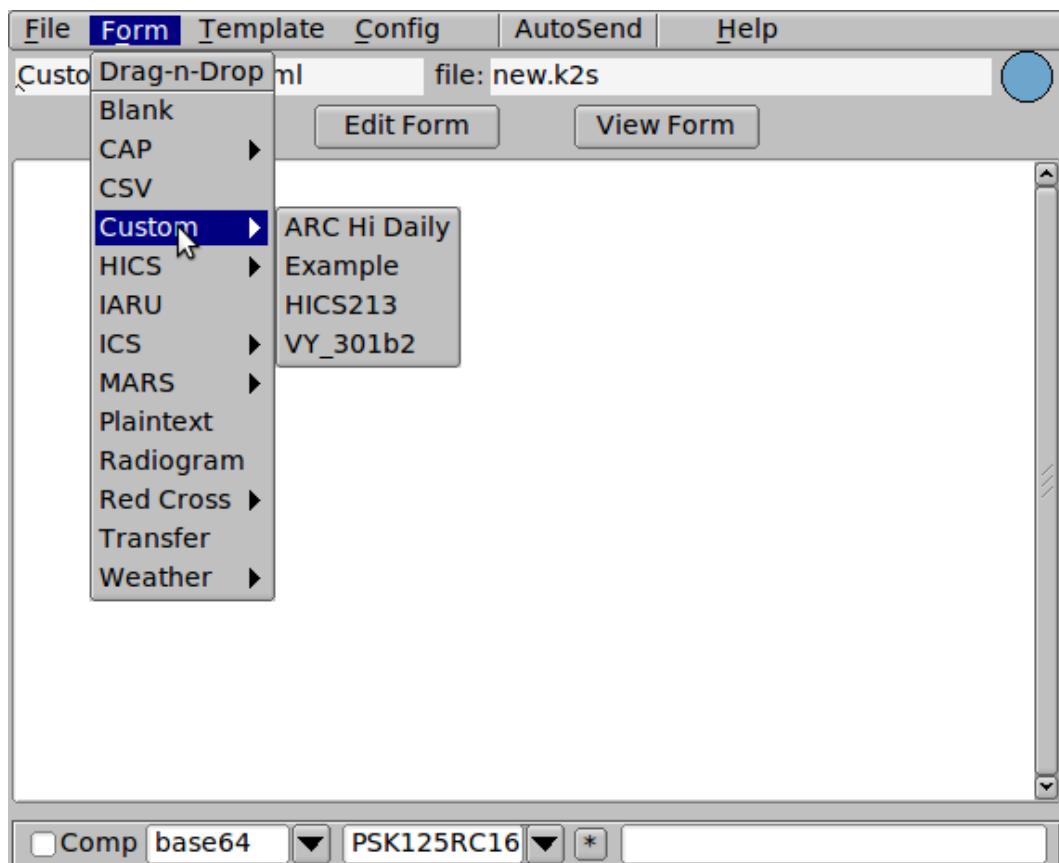


Figure 1.12: Custom Menu

flmsg supports the following html form input types:

- text input
- password input
- check box
- radio box
- select (combo box)
- multi-line "text area"

This is the "Example" form. It demonstrates the use of all of the supported controls.

----- raw html -----

```

<h2>A Simple HTML Form Document</h2>
<form>Enter your name: <input name="name" value="W1HKJ" size="20" 
maxlength="40" type="text"> and password: <input name="password" 
size="9" maxlength="8" type="password"><br>
<p>Please indicate which areas of the world you would like to visit:</p>
<p> <input name="cb1" type="checkbox">Asia<br>
<input name="cb2" type="checkbox">Africa<br>
<input name="cb3" type="checkbox">North America<br>
<input name="cb4" type="checkbox">South America<br>

```

```

<input name="cb5" type="checkbox">Antarctica<br>
<input name="cb6" type="checkbox">Europe<br>
<input name="cb7" checked="checked" type="checkbox">Australasia<br>
</p>
<p>Please indicate which area of the world you live:</p>
<p> <input name="rb" value="1" type="radio">Asia<br>
<input name="rb" value="2" type="radio">Africa<br>
<input name="rb" value="3" checked="checked" type="radio">North America<br>
<input name="rb" value="4" type="radio">South America<br>
<input name="rb" value="5" type="radio">Antarctica<br>
<input name="rb" value="6" type="radio">Europe<br>
<input name="rb" value="7" type="radio">Australasia<br>
</p>
<p>
Please select your modem speed:
<select name="speed">
<option value="none">No modem</option>
<option value="vslow" selected="selected">9600 or lower</option>
<option value="slow">19200</option>
<option value="ok">38400</option>
<option value="fast">over 38400</option>
</select>
</p>
Please enter your address:<br>
<textarea name="address" rows="5" cols="50">106 Whitfield Drive
Toney, Alabama 35773</textarea><br>
<p>
</form>

```

----- normal HTML view -----

### 1.13.2 A Simple HTML Form Document

#### A Simple HTML Form Document

Enter your name:  and password:

Please indicate which areas of the world you would like to visit:

- Asia
- Africa
- North America
- South America
- Antarctica
- Europe
- Australasia

Please indicate which area of the world you live:

- Asia
- Africa
- North America
- South America
- Antarctica
- Europe
- Australasia

Please select your modem speed:

Please enter your address:

106 Whitfield Drive  
Toney, Alabama 35773

Figure 1.13: Custom Form

The “<INPUT” fields must all be inside a FORM (the “<form>” and “</form>” tags). Use the Example form above as a guide for the currently supported INPUT types.

A good source for understanding basic HTML forms is [http://www.w3schools.com/html/html\\_forms.asp](http://www.w3schools.com/html/html_forms.asp)

Once you have your custom form ready, just drop it into the Custom subdirectory in nbems.files (Windows) or .nbems (Linux) directory.

Flmsg checks once a second for any new or deleted custom files and updates the Form, Custom menu.

Once you click on the Custom form in flmsg, it will open a screen like this:

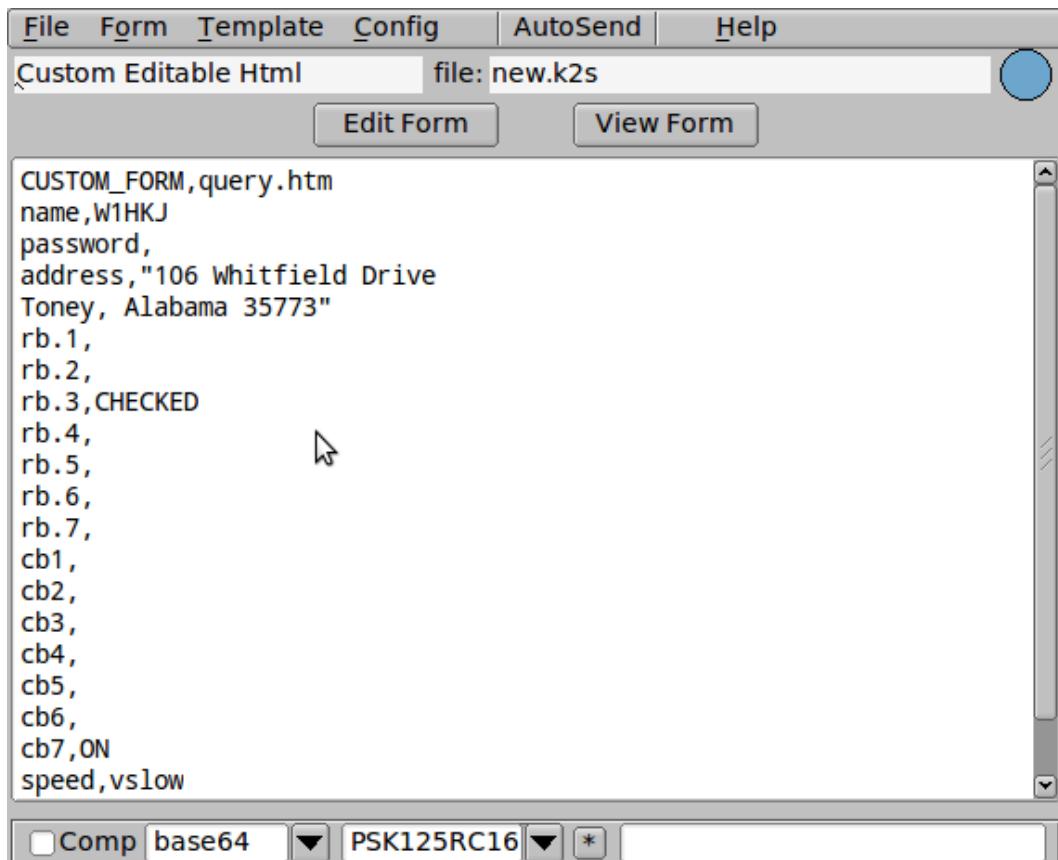


Figure 1.14: Custom Data Fields

Use the “Edit Form” button to open an editable form in your web browser.

flmsg will add a “Submit Form” button to the bottom of your form. Do not add that button during your form development.

Pressing the “Submit Form” button transfers the data back to flmsg.

When you have the data in the form filled out, save it from the File, Save menu and then use the “AutoSend” button in flmsg to send it to fldigi. The receiving end must also have the same custom form in their Custom folder for them to be able to view it in a browser and print it.

Use the “View Form” button in flmsg to view a “Read Only” version of the form.

Of course if you want a printed version, just use the print function of your web browser while viewing the form.

The custom html entry form needs to be at both the sending and receiving end. The raw data can be received without the form, but it will only display as a comma separated value table. The custom html form can be transmitted to new receiving stations via any means, email attachment, “flmsg file transfer”, or “flamp file transfer”.

### 1.13.3 On Line Site for Custom Html Forms

Custom forms may be uploaded and downloaded from the NBEMSham Yahoo group. Access to the custom form file folder can be easily obtained from the "Help | Download custom forms" menu item. Click this menu item will open your default web browser to this site:

[https://groups.yahoo.com/neo/groups/NBEMSham/files/Custom\\_flmsg\\_forms/](https://groups.yahoo.com/neo/groups/NBEMSham/files/Custom_flmsg_forms/)

You must be a member of the group to have upload privileges.

### 1.13.4 Custom CSV Forms

Custom forms consist of three documents, 1, 2, 3 and 4 as illustrated by the example files in the table below. A custom csv template should also be distributed with your new custom document. That will insure that user documents will correctly correspond to the custom forms. Lines 5 and 6 illustrate a completed spreadsheet and it's transfer document. Lines 7 and 8 are the final view documents for (5).

1	<a href="#">ARCdaily.c2t</a>	user fill-in template for the Red Cross Daily Report (in the IRC/template folder)
2	<a href="#">ARCdaily.htm</a>	html pretty print template for the Red Cross Daily Report (in the CUSTOM folder)
3	<a href="#">ARCdaily.txt</a>	text print template for the Red Cross Daily Report (in the CUSTOM folder)
4	<a href="#">ARCdaily.csv</a>	empty spreadsheet delineating the data fields for the ARC daily report (in the CSV folder)
5	<a href="#">ARCdaily_001.csv</a>	completed user form for report #001, Red Cross Daily Report (in the CSV folder)
6	<a href="#">W1HKJ-14.c2s</a>	flmsg transfer document for above completed form (in the ICS/MESSAGES folder)
7	<a href="#">W1HKJ-14.htm</a>	html view of (6), will be written to the NBEMS.files/temp_files folder
8	<a href="#">W1HKJ-14.txt</a>	text view of (6), will be written to the NBEMS.files/temp_files folder

Table links not functional. See FLMSG HTML version at <http://www.w1hkj.com/downloads>

The flmsg spreadsheet (csv) handler detects a first line in the csv body:

CUSTOM\_FORM, "form\_name"

for example:

CUSTOM\_FORM, ARCdaily

Which will cause special handling for both View ... html, and View ... text, when detected and the files "form\_name.html" and "form\_name.txt" are present in the folder

nbems.files

then those template files will be used for the viewer. If not found then the standard spread sheet view will be presented to the user. This maintains complete backward compatibility with the current flmsg. flmsg will create a new subfolder under the nbems.files (`~/.nbems`) folder hierarchy.

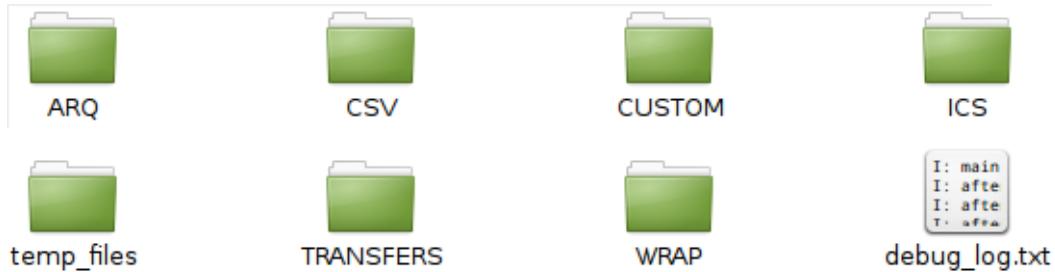


Figure 1.15: Custom Folders

The form templates, html and txt should be placed in the CUSTOM folder.

Good usage dictates that blank spaces in file names and field names be replaced with the underscore character. Field contents should be enclosed in double quotes when the field contains a comma.

It might be advisable to also distribute a how-to file for each custom form. The how-to would detail what each csv line requires, which ones should not be modified, etc.

The developers are working on an embedded web server within flmsg that will allow further enhancement of the custom form concept. When completed it will be possible to use the custom form for both data entry and display.

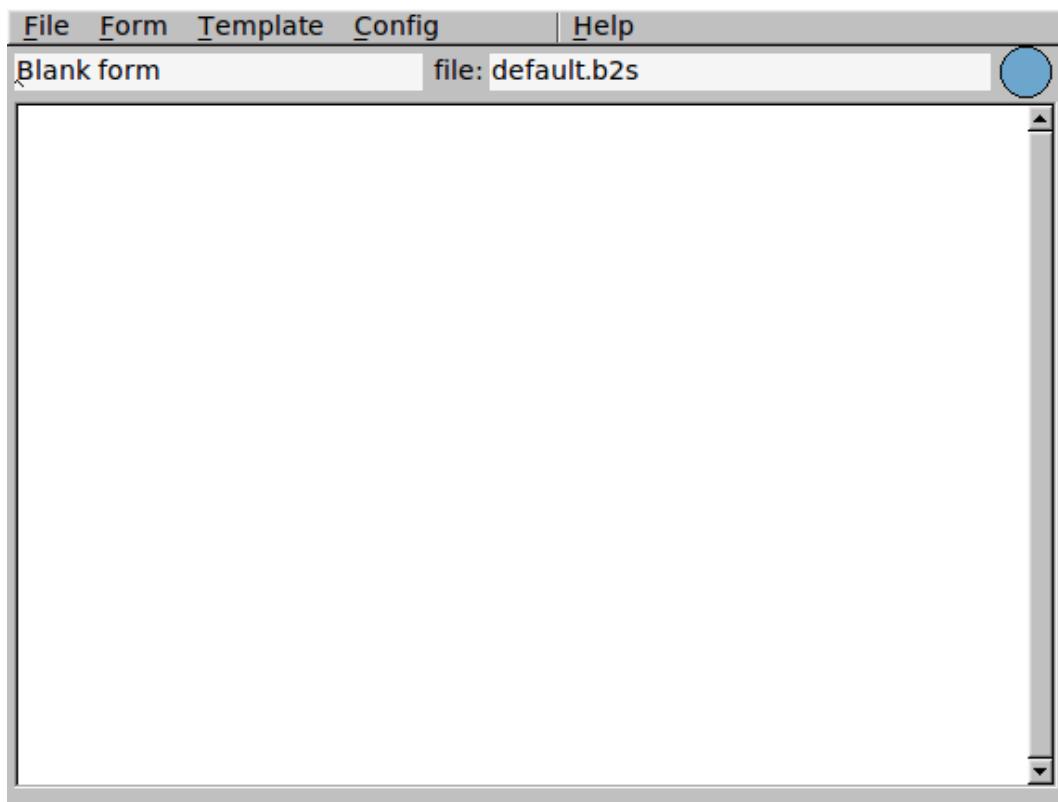
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## Chapter 2

### Blank messages

The user prepares a message using a blank form. This can be used for utility type messages, or for generating a local form that is not covered by any of the other supported emergency communications formats.

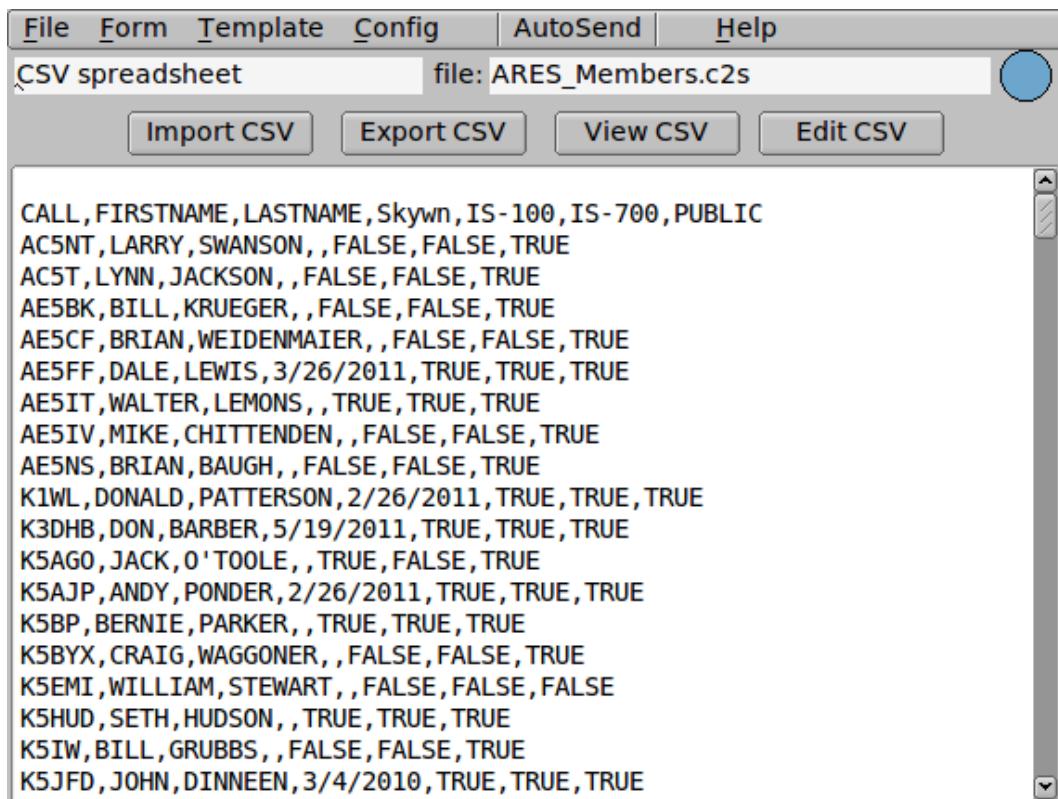




## Chapter 3

# Comma Separated Value text (spreadsheet) messages

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The user will not usually prepare the csv file using the text panel. CSV files are created using a spreadsheet program such as Excel, Gnumeric or Open Office Calc. The spreadsheet values are then exported to the CSV file. Please note that CSV files do not contain spreadsheet links, spreadsheet formulas, or multiple sheets. They can be used only for transferring a single spreadsheet with the computed values.

The data panel is populated by one of three ways.

1. Pressing the Import CSV button
2. Right clicking on the panel and selecting "Insert file"
3. Dragging a CSV file from the desktop or a file manager window and dropping on the data panel

When you import the csv file the program will parse the csv file name to create the c2s file name.

You can export a csv file so that is can be opened using your spreadsheet program. Left click on the "Export CSV" to perform this operation.

You can export and open the csv file with your spreadsheet program by pressing the "Edit CSV" button. Your file manager must open csv files with the spreadsheet program by default for this action to work.

You can open a read-only view of the data fields by pressing the "View CSV" button:

**CSV Viewer**

CALL	FIRSTNAME	LASTNAME		
AC5NT	LARRY	SWANSON	Skywn	IS-1
AC5T	LYNN	JACKSON		FAL
AE5BK	BILL	KRUEGER		FAL
AE5CF	BRIAN	WEIDENMAIER		FAL
AE5FF	DALE	LEWIS	3/26/2011	TRU
AE5IT	WALTER	LEMONS		TRU
AE5IV	MIKE	CHITTENDEN		FAL
AE5NS	BRIAN	BAUGH		FAL
K1WL	DONALD	PATTERSON	2/26/2011	TRU
K3DHB	DON	BARBER	5/19/2011	TRU
K5AGO	JACK	O'TOOLE		TRU
K5AJP	ANDY	PONDER	2/26/2011	TRU
K5BP	BERNIE	PARKER		TRU

**Close**

Viewing the content and printing can be accomplished using the menu item "File | View | Html delivery". A partial view of the html document for the above data:

---

CALL	FIRSTNAME	LASTNAME	Skywn	IS-100	IS-700	PUBLIC
AC5NT	LARRY	SWANSON		FALSE	FALSE	TRUE
AC5T	LYNN	JACKSON		FALSE	FALSE	TRUE
AE5BK	BILL	KRUEGER		FALSE	FALSE	TRUE
AE5CF	BRIAN	WEIDENMAIER		FALSE	FALSE	TRUE
AE5FF	DALE	LEWIS	3/26/2011	TRUE	TRUE	TRUE
AE5IT	WALTER	LEMONS		TRUE	TRUE	TRUE
AE5IV	MIKE	CHITTENDEN		FALSE	FALSE	TRUE
AE5NS	BRIAN	BAUGH		FALSE	FALSE	TRUE
K1WL	DONALD	PATTERSON	2/26/2011	TRUE	TRUE	TRUE
K3DHB	DON	BARBER	5/19/2011	TRUE	TRUE	TRUE
K5AGO	JACK	O'TOOLE		TRUE	FALSE	TRUE
K5AIP	ANDY	PONDER	2/26/2011	TRUE	TRUE	TRUE

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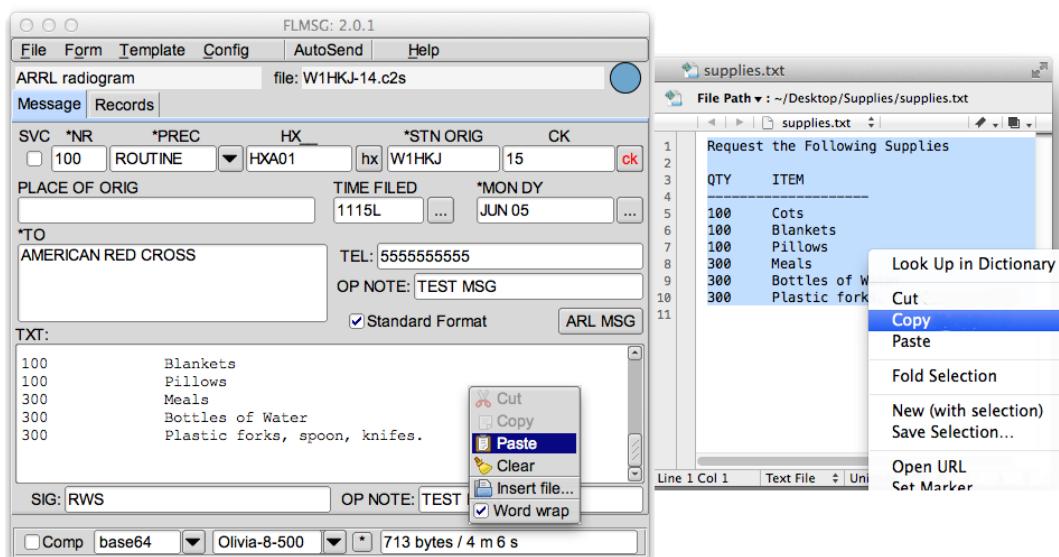
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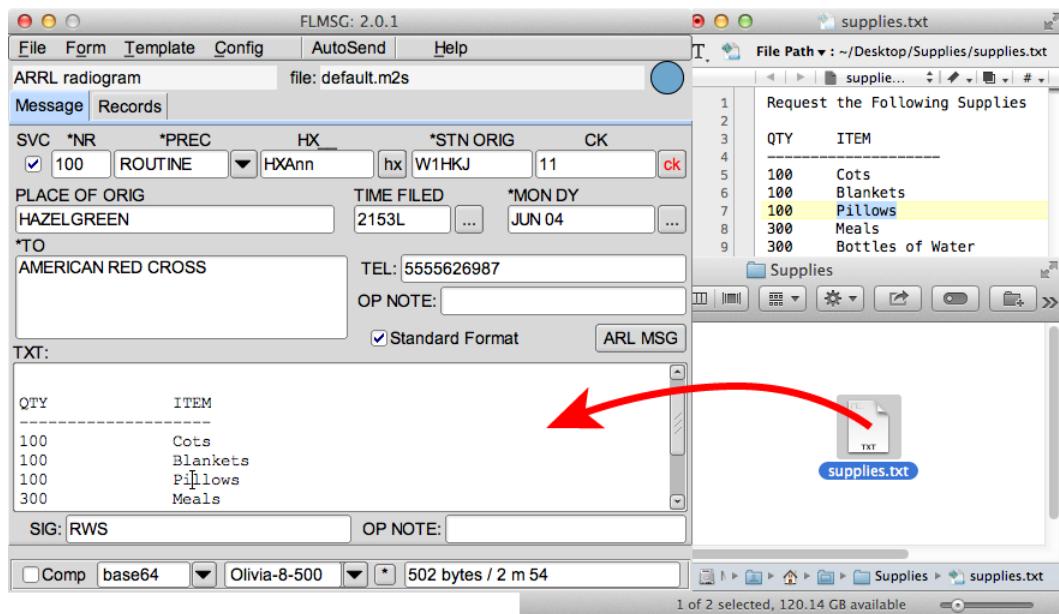
## Chapter 4

### Drag and Drop

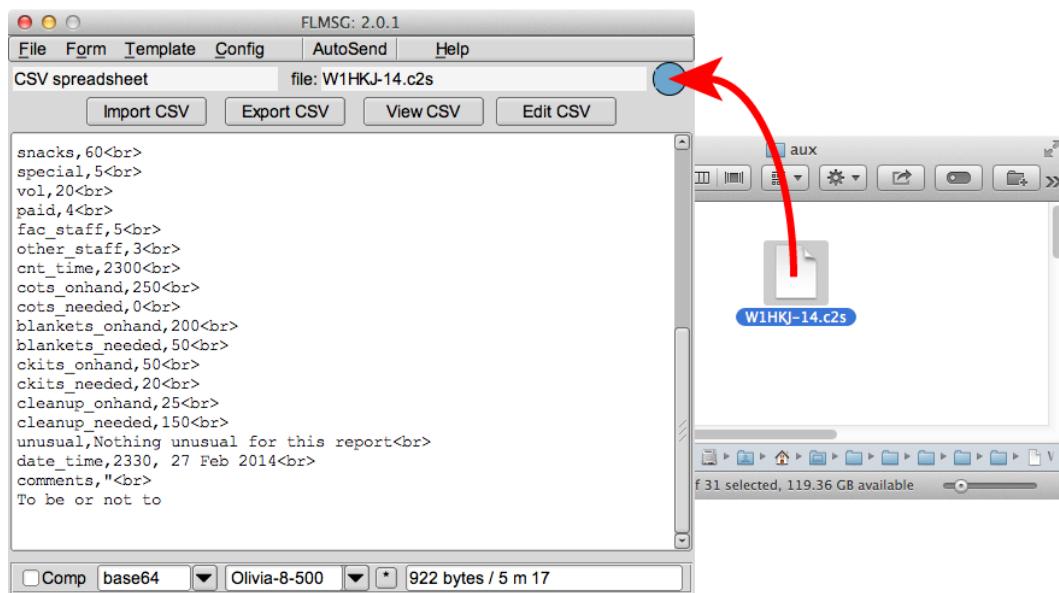
This is not an EMMCOMM form, but a convenient way to either open or capture data using the OS window manager resource. The light blue circular target icon in the upper right hand side of the window can accept objects using mouse implemented drag and drop techniques.



Cut and paste text from text editor to FLMSG edit pane.



Drag file, placing content of file into the edit pane.



Drag message file to the DnD icon.

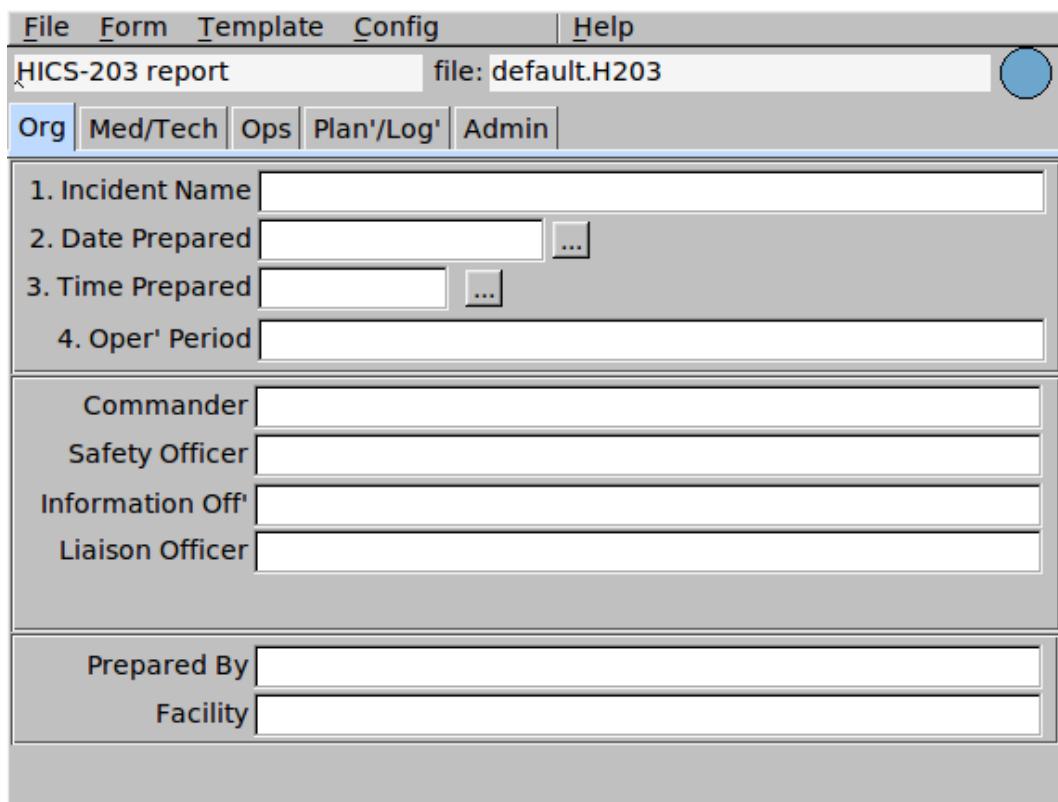
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## Chapter 5

### HICS-203 messages

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The screenshot shows a Windows-style application window for the 'HICS-203 report'. The window has a menu bar with 'File', 'Form', 'Template', 'Config', 'Help', and a status bar showing 'file: default.H203'. The main area contains several tabs: 'Org' (selected), 'Med/Tech', 'Ops', 'Plan'/Log', and 'Admin'. Below the tabs are four input fields for incident details: '1. Incident Name' (empty), '2. Date Prepared' (empty), '3. Time Prepared' (empty), and '4. Oper' Period' (empty). To the right of these fields are three small buttons. Below this section are four input fields for officer roles: 'Commander' (empty), 'Safety Officer' (empty), 'Information Off' (empty), and 'Liaison Officer' (empty). At the bottom are two more input fields: 'Prepared By' (empty) and 'Facility' (empty).

File Form Template Config | Help

HICS-203 report file: default.H203

Org | **Med/Tech** | Ops | Plan'/'Log' | Admin

Medical / Technical Specialists

Specialist   
Specialist   
Specialist   
Specialist   
Specialist   
Specialist

File Form Template Config | Help

HICS-203 report file: default.H203

Org | **Med/Tech** | **Ops** | Plan'/'Log' | Admin

Chief   
Bus'/'Cont' branch   
Staging manager   
Med' care branch   
Infra' branch   
Security branch   
Hazmat branch   
Other

HICS203 message files are distinguished by the extension "H203". Template files are assigned the extension "← H203T".

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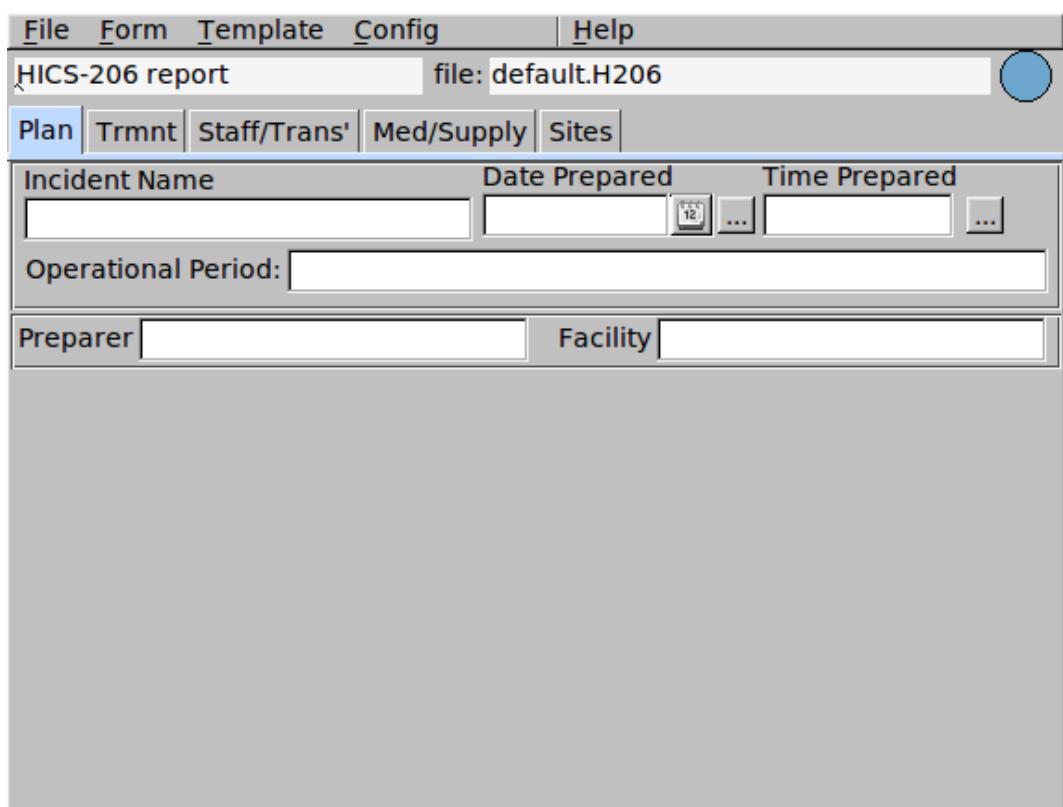
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## Chapter 6

### HICS-206 messages

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The screenshot shows a Windows-style application window for 'HICS-206 report'. The window has a menu bar with 'File', 'Form', 'Template', 'Config', and 'Help'. The title bar displays 'HICS-206 report' and 'file: default.H206'. The main interface consists of several tabs: 'Plan' (selected), 'Trmnt', 'Staff/Trans', 'Med/Supply', and 'Sites'. Below the tabs are input fields for 'Incident Name', 'Date Prepared' (with a calendar icon), 'Time Prepared', and 'Operational Period'. There are also fields for 'Preparer' and 'Facility'. The bottom half of the window is a large, empty gray area.

File Form Template Config | Help

HICS-206 report file: default.H206

Plan Trmnt Staff/Trans' Med/Supply Sites

Location Contact Information

Treatment area team leader Contact Information

Special Instructions

File Form Template Config | Help

HICS-206 report file: default.H206

Plan Trmnt Staff/Trans' Med/Supply Sites

Staff

MD/DO

PA/NP

RN/LPN

Tech/CN

Team-other

Transportation

Litters

Portable

Transport

Wheelchairs

Trans'-other

File Form Template Config | Help

HICS-206 report file: default.H206

Plan Trmnt Staff/Trans' Med/Supply Sites

Medicines

Medicine

Medicine

Medicine

Medicine

Medicine

Supplies

Supply

Supply

Supply

Supply

Supply

File Form Template Config | Help

HICS-206 report file: default.H206

Plan Trmnt Staff/Trans' Med/Supply Sites

Name  Phone   
Address  Spec care

HICS206 message files are distinguished by the extension "H206". Template files are assigned the extension "← H206T".

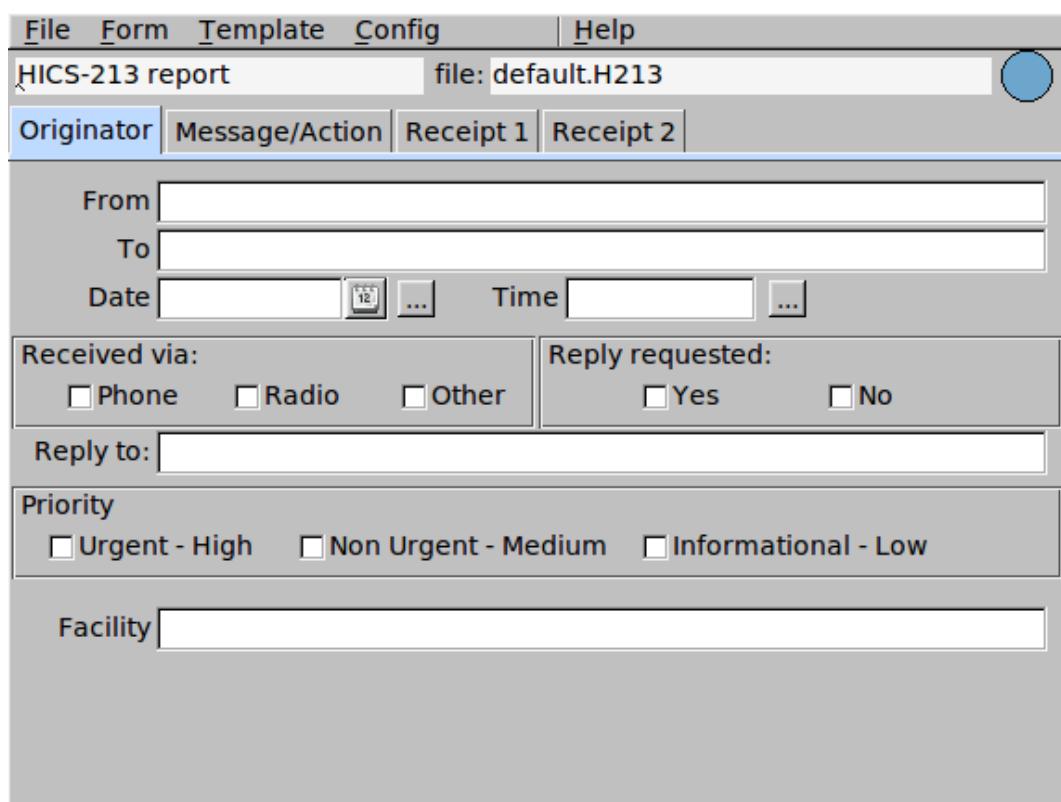
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## Chapter 7

### HICS-213 messages

The user prepares, answers and views all data files from the multi-tab user interface dialog:

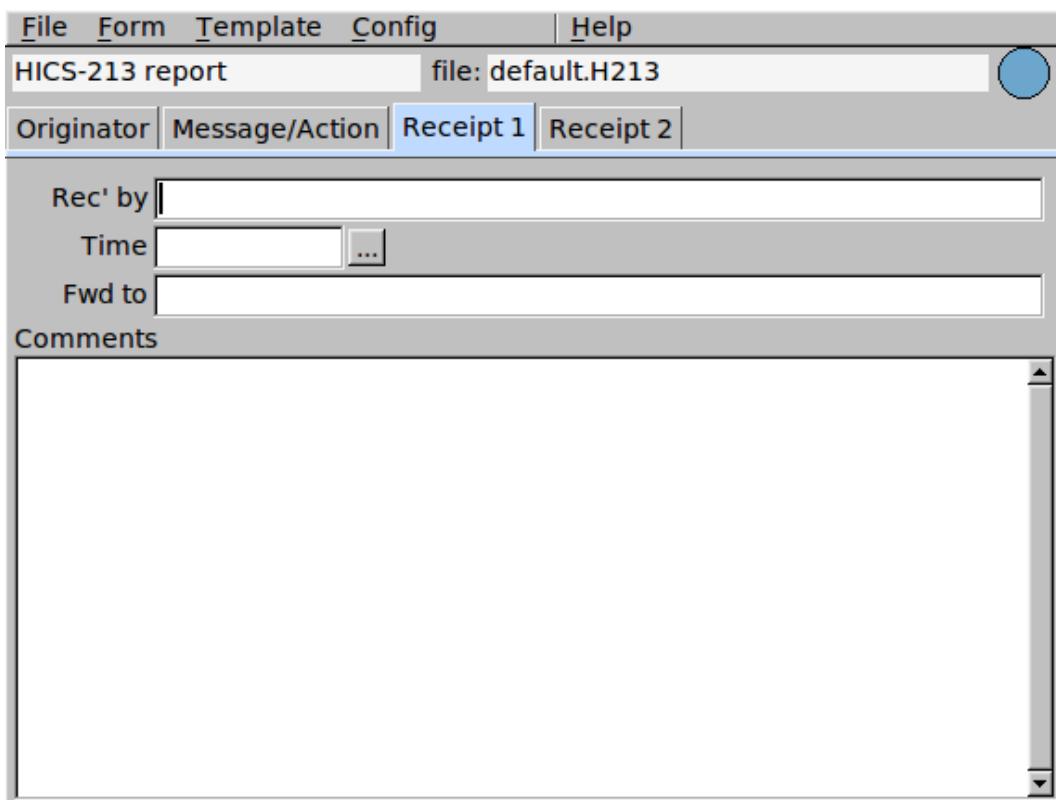
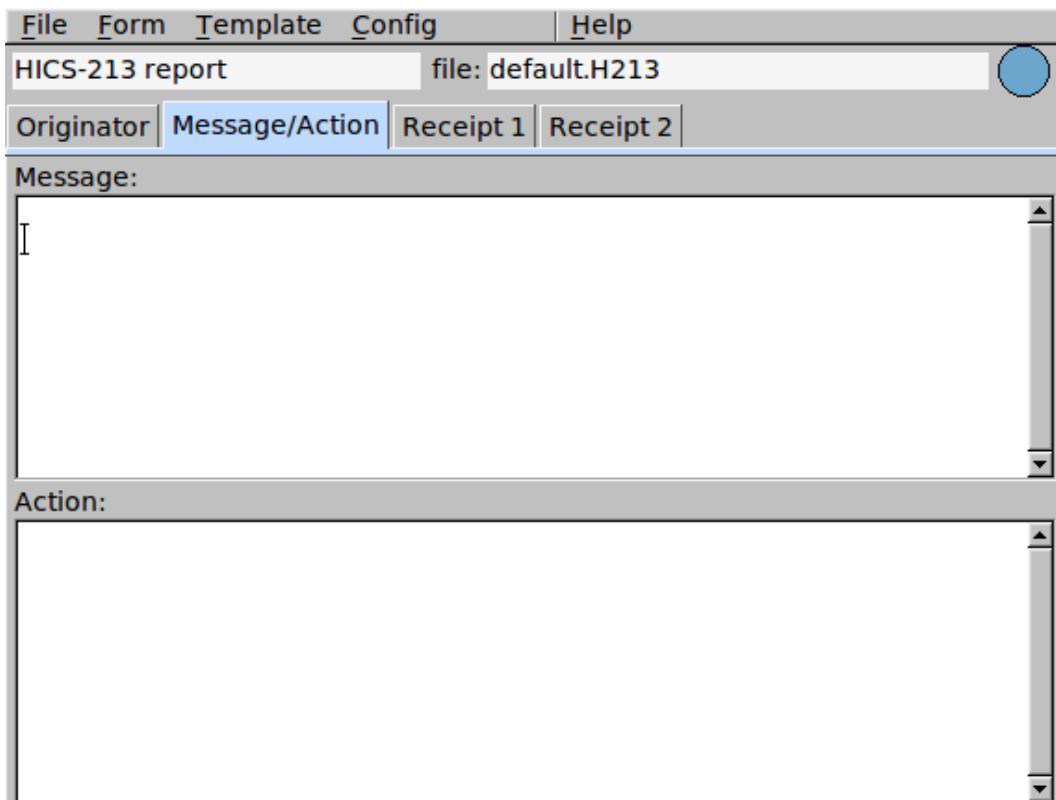


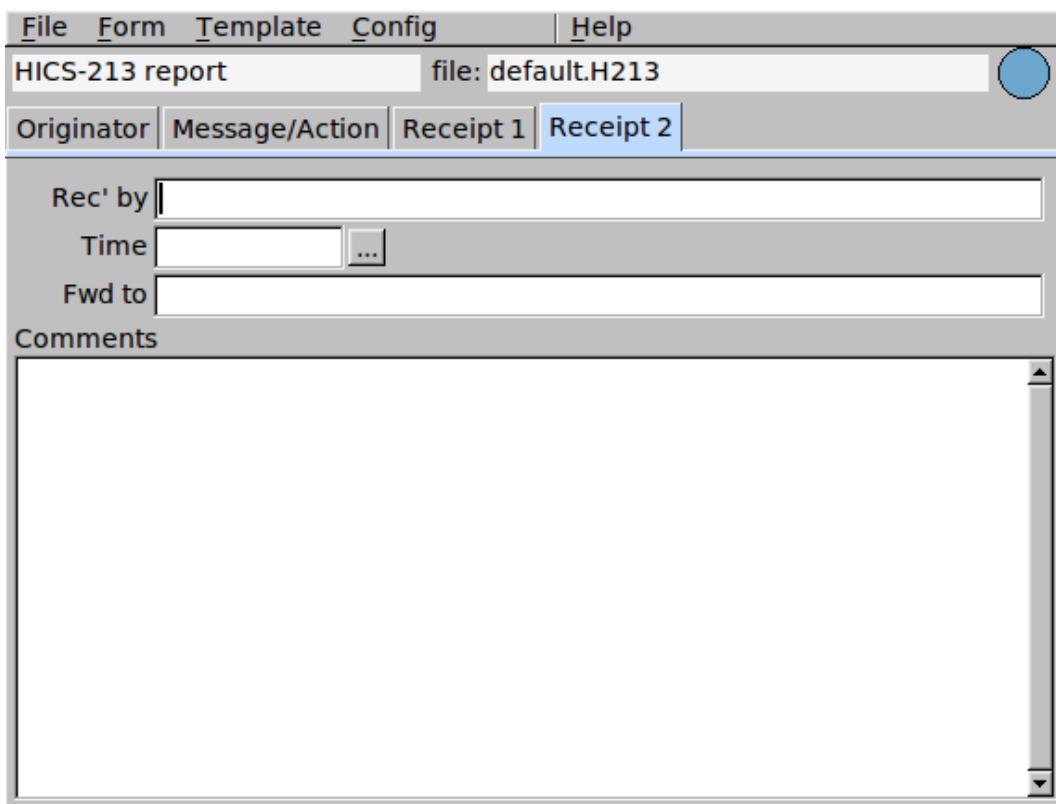
The screenshot shows a Windows-style application window titled "HICS-213 report" with the file "default.H213" open. The window has a "File" menu and a "Help" menu. It features a tabbed interface with four tabs: "Originator" (selected), "Message/Action", "Receipt 1", and "Receipt 2".

The "Originator" tab contains fields for "From" (a text input field), "To" (a text input field), "Date" (a date input field with a calendar icon and a time input field with a time icon), and "Priority" (checkboxes for "Urgent - High", "Non Urgent - Medium", and "Informational - Low").

The "Message/Action" tab contains fields for "Received via:" (checkboxes for "Phone", "Radio", and "Other") and "Reply requested:" (checkboxes for "Yes" and "No").

The "Receipt 1" and "Receipt 2" tabs are currently empty.





HICS213 message files are distinguished by the extension "H213". Template files are assigned the extension "H213T".

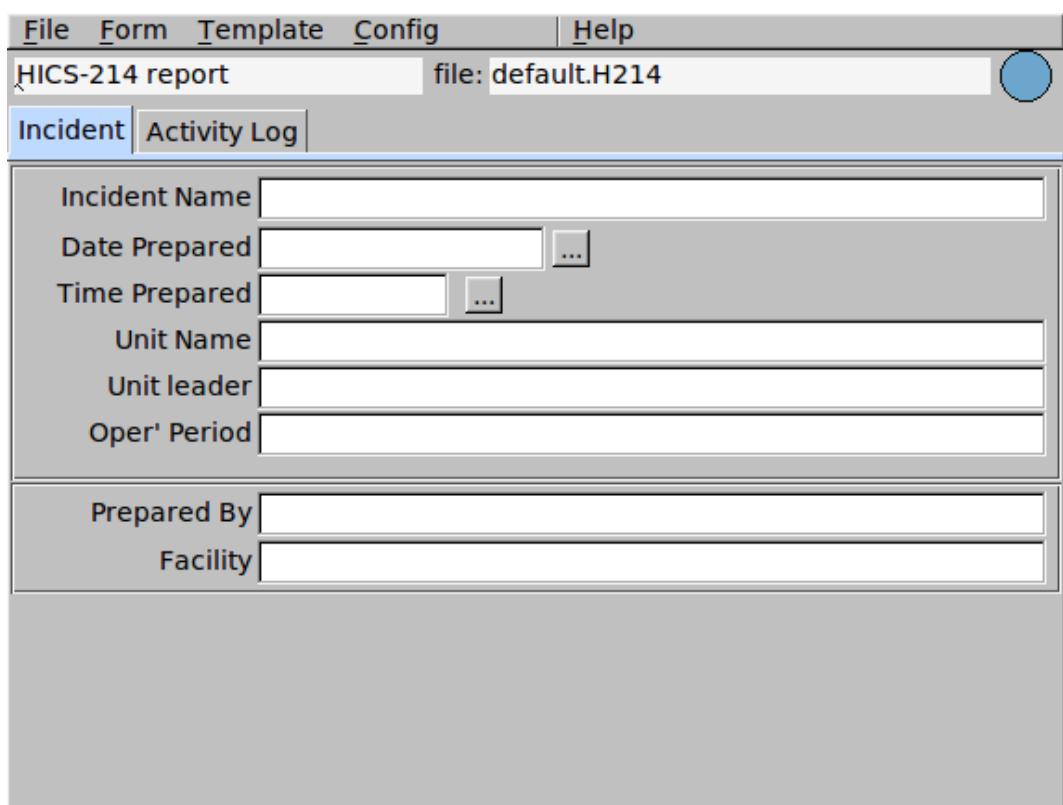
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## Chapter 8

### HICS-214 messages

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The screenshot shows a Windows-style application window titled "HICS-214 report" with the file path "file: default.H214". The window has a menu bar with "File", "Form", "Template", "Config", and "Help". Below the menu is a toolbar with a blue circular icon. The main area contains two tabs: "Incident" (selected) and "Activity Log". The "Incident" tab displays several input fields for incident details: "Incident Name" (empty), "Date Prepared" (empty), "Time Prepared" (empty), "Unit Name" (empty), "Unit leader" (empty), and "Oper' Period" (empty). Below these are two more input fields: "Prepared By" (empty) and "Facility" (empty). The "Activity Log" tab is currently inactive.

Time	Major Events

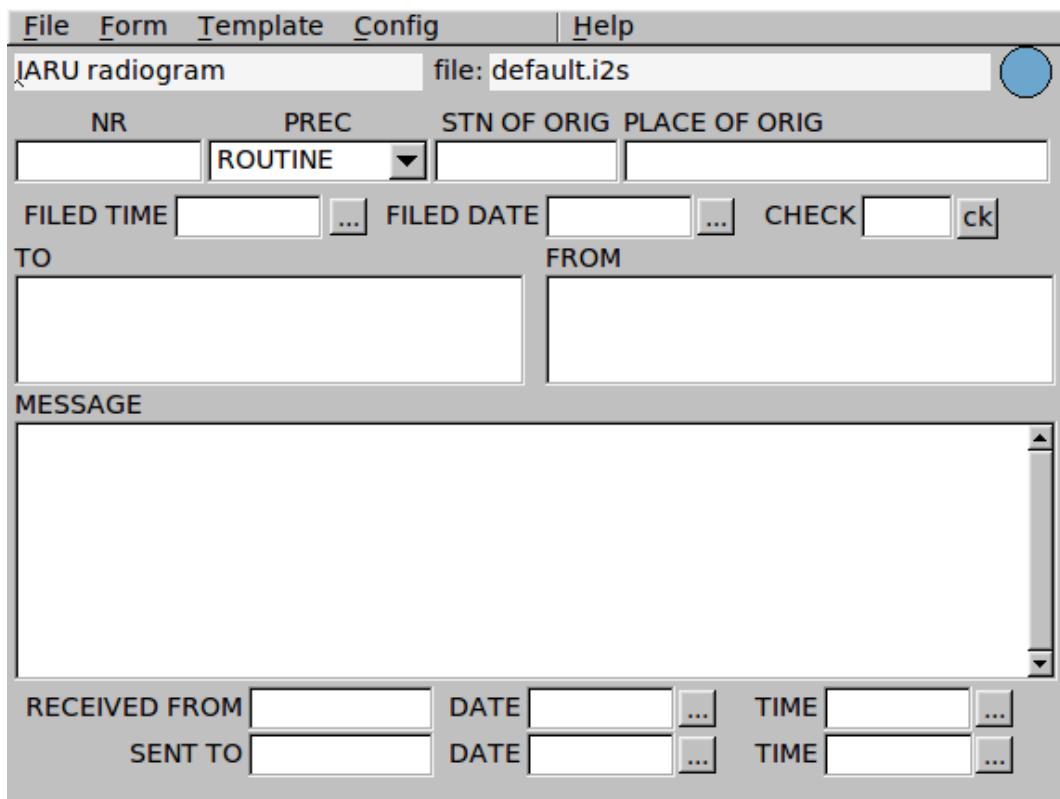
HICS214 message files are distinguished by the extension "H214". Template files are assigned the extension "H214T".

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## Chapter 9

### IARU messages

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The screenshot shows a window titled "IARU radiogram" with a menu bar containing "File", "Form", "Template", "Config", and "Help". The status bar indicates "file: default.i2s". The main area is divided into several sections:

- ROUTINE:** A dropdown menu currently set to "ROUTINE".
- NR:** A text input field.
- STN OF ORIG:** A text input field.
- PLACE OF ORIG:** A text input field.
- FILED TIME:** A text input field with a browse button (...).
- FILED DATE:** A text input field with a browse button (...).
- CHECK:** A text input field with a checked checkbox (ck).
- TO:** A text input field.
- FROM:** A text input field.
- MESSAGE:** A large text area for the message content.
- RECEIVED FROM:** A text input field.
- DATE:** A text input field with a browse button (...).
- TIME:** A text input field with a browse button (...).
- SENT TO:** A text input field.
- DATE:** A text input field with a browse button (...).
- TIME:** A text input field with a browse button (...).

IARU message files are distinguished by the extension "i2s". Template files are assigned the extension "i2t".

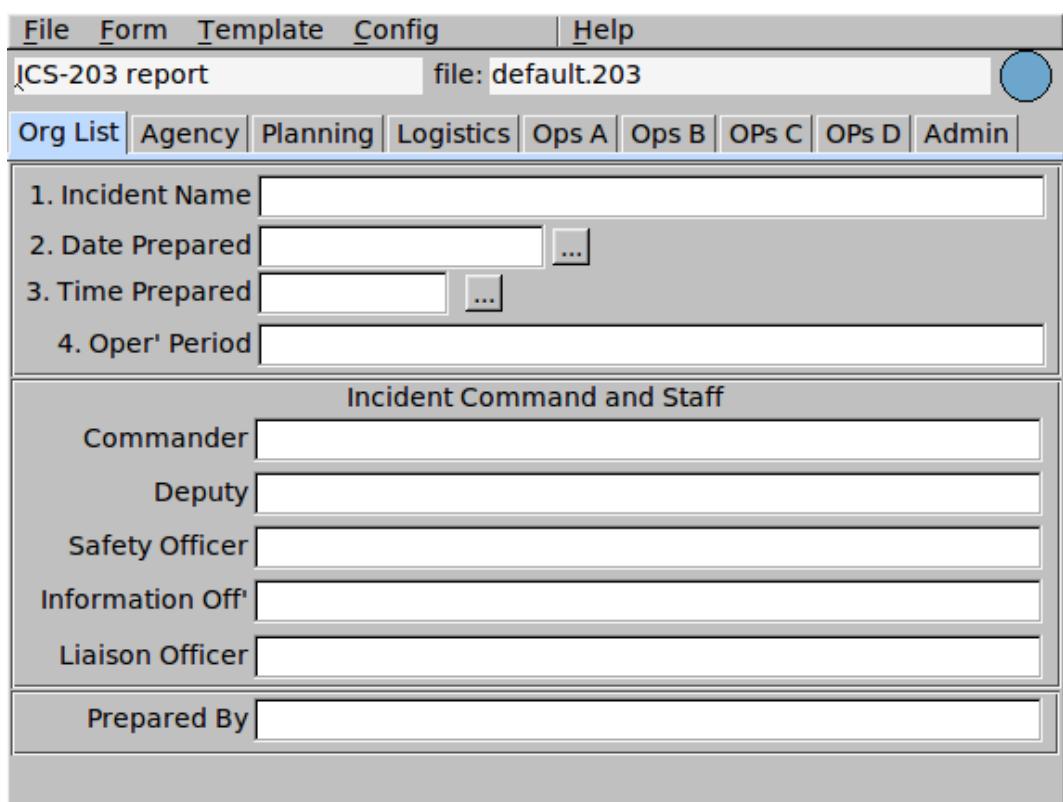
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## Chapter 10

### ICS-203 messages

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The screenshot shows a Windows-style application window for the 'ICS-203 report'. The menu bar includes 'File', 'Form', 'Template', 'Config', 'Help', and a status bar showing 'file: default.203'. The title bar says 'ICS-203 report'. The main interface has a tab bar with 'Org List' (selected), 'Agency', 'Planning', 'Logistics', 'Ops A', 'Ops B', 'Ops C', 'Ops D', and 'Admin'. Below the tabs are four input fields for incident details: '1. Incident Name' (empty), '2. Date Prepared' (empty), '3. Time Prepared' (empty), and '4. Oper' Period' (empty). A section titled 'Incident Command and Staff' follows, containing five input fields for roles: 'Commander' (empty), 'Deputy' (empty), 'Safety Officer' (empty), 'Information Off' (empty), and 'Liaison Officer' (empty). A final input field 'Prepared By' (empty) is at the bottom. A blue circular icon is in the top right corner of the window.

File Form Template Config | Help

ICS-203 report file: default.203

Org List Agency **Planning** Logistics Ops A Ops B Ops C Ops D Admin

Agency Representatives

Agency	Name
Agency	Name

File Form Template Config | Help

ICS-203 report file: default.203

Org List Agency **Planning** Logistics Ops A Ops B Ops C Ops D Admin

Planning Section

Chief
Deputy
Resources Unit
Situation Unit
Documentation Unit
Demobilization Unit
Technical Specialist
Technical Specialist
Technical Specialist

File Form Template Config | Help

ICS-203 report file: default.203

Org List | Agency | Planning | **Logistics** | Ops A | Ops B | Ops C | Ops D | Admin

Logistics Section

Chief	
Deputy	
a. Support	Director
	Supply Unit
	Facilities Unit
	Ground Support Unit
b. Service	Director
	Communications Unit
	Medical Unit
	Food Unit

File Form Template Config | Help

ICS-203 report file: default.203

Org List | Agency | Planning | Logistics | Ops A | **Ops B** | Ops C | Ops D | Admin

Chief	
Deputy	
Branch I - Division/Groups	
Branch Director	
Deputy	
Division / Group	

File Form Template Config | Help

ICS-203 report file: default.203

Org List Agency Planning Logistics Ops A **Ops B** Ops C Ops D Admin

Branch II - Divisions/Groups

Branch Director	
Deputy	
Division / Group	

File Form Template Config | Help

ICS-203 report file: default.203

Org List Agency Planning Logistics Ops A Ops B **Ops C** Ops D Admin

Branch III - Divisions/Groups

Branch Director	
Deputy	
Division / Group	

File Form Template Config | Help

ICS-203 report file: default.203

Org List | Agency | Planning | Logistics | Ops A | Ops B | Ops C | Ops D | Admin

Air Operations Branch

Air Operations Br. Dir.	<input type="text"/>
Air Tactical Group Sup.	<input type="text"/>
Air Support Group Sup.	<input type="text"/>
Helicopter Coordinator	<input type="text"/>
Air Tanker / Fixed Wing Crd.	<input type="text"/>

File Form Template Config | Help

ICS-203 report file: default.203

Org List | Agency | Planning | Logistics | Ops A | Ops B | Ops C | Ops D | Admin

Finance/Admin Section

Chief	<input type="text"/>
Deputy	<input type="text"/>
Time Unit	<input type="text"/>
Procurement Unit	<input type="text"/>
Compensation / Claims Unit	<input type="text"/>
Cost Unit	<input type="text"/>

ICS203 message files are distinguished by the extension "203". Template files are assigned the extenstion "203T".

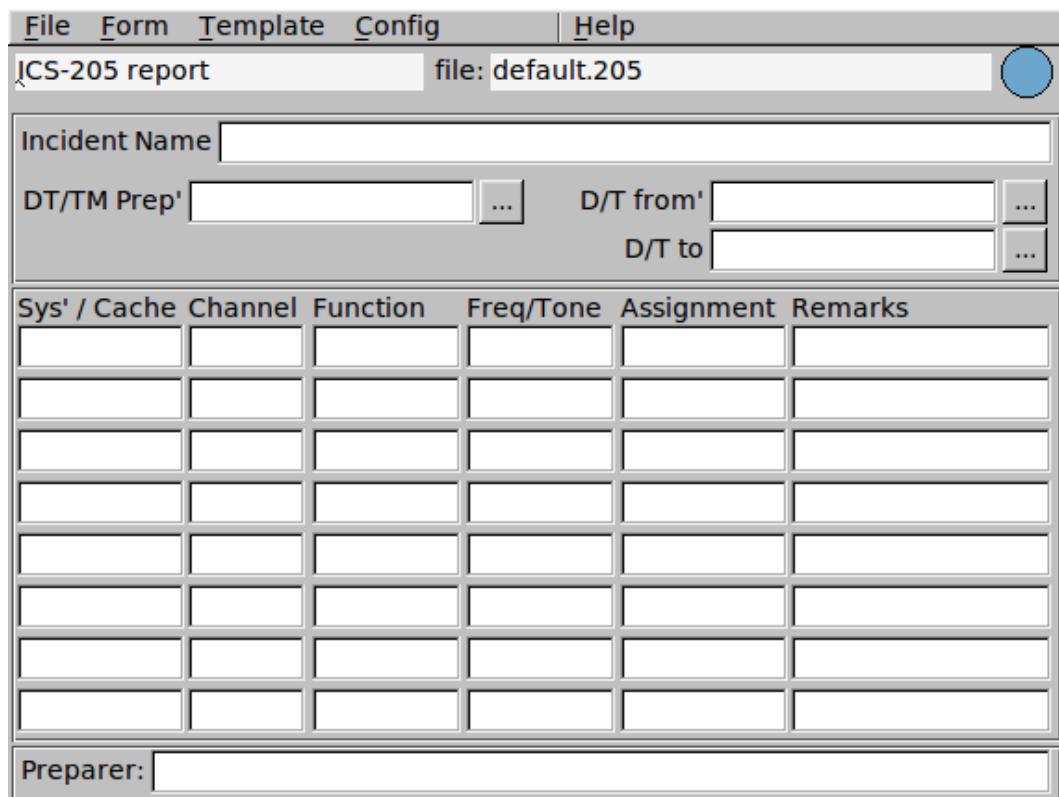
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# Chapter 11

## ICS-205 messages

The user prepares, answers and views all data files from the single user interface dialog:



The screenshot shows a Windows-style application window for 'ICS-205 report'. The menu bar includes 'File', 'Form', 'Template', 'Config', and 'Help'. The title bar shows 'ICS-205 report' and 'file: default.205'. The main area contains fields for 'Incident Name' (empty), 'DT/TM Prep' (empty), 'D/T from' (empty), and 'D/T to' (empty). Below these is a table with columns: 'Sys' / Cache', 'Channel', 'Function', 'Freq/Tone', 'Assignment', and 'Remarks'. The table has 8 rows, all of which are empty. At the bottom is a field for 'Preparer' (empty).

ICS205 message files are distinguished by the extension "205". Template files are assigned the extension "205T".

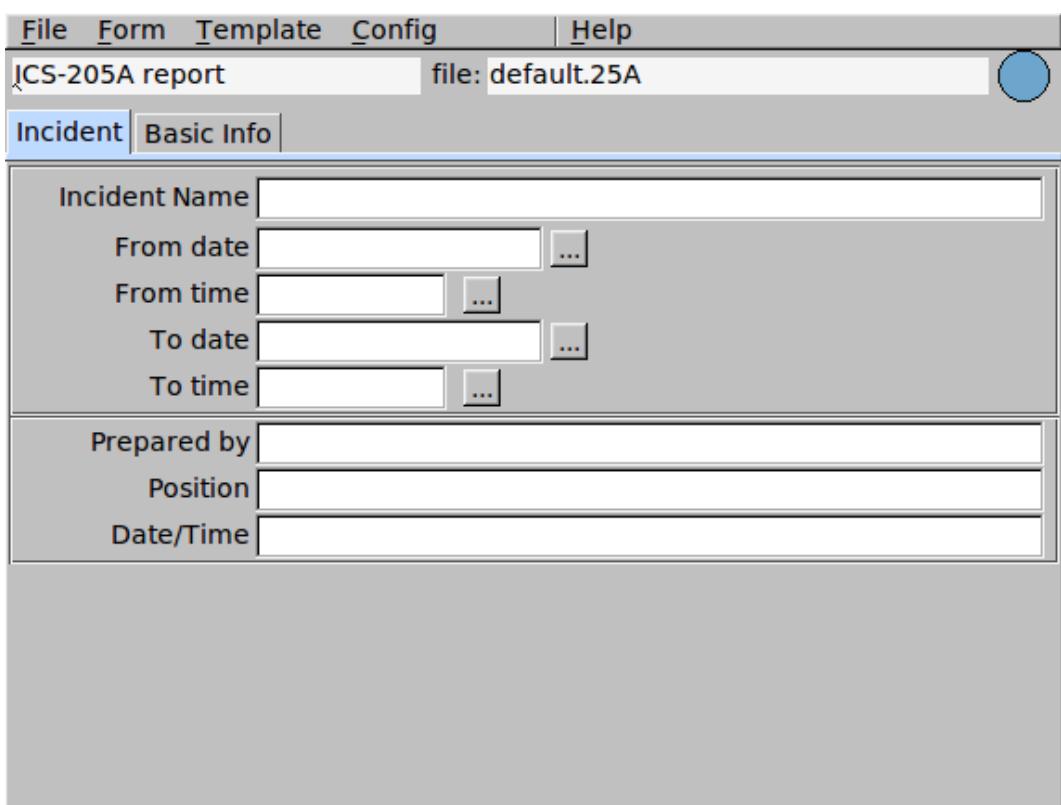
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## Chapter 12

### ICS-205A messages

The user prepares, answers and views all data files from the single user interface dialog:



The screenshot shows a software application window titled "ICS-205A report" with a status bar indicating "file: default.25A". The menu bar includes "File", "Form", "Template", "Config", and "Help". The main interface has two tabs: "Incident" (which is selected and highlighted in blue) and "Basic Info". The "Incident" tab contains fields for "Incident Name" (a text input field), and date and time inputs for "From date", "From time", "To date", and "To time", each with a small "..." button to the right. The "Basic Info" tab contains fields for "Prepared by" (a text input field), "Position" (a text input field), and "Date/Time" (a text input field). The entire application has a light gray background.

The screenshot shows a software application window titled "ICS-205A report" with a file path "file: new.25A". The menu bar includes "File", "Form", "Template", "Config", and "Help". Below the menu is a toolbar with a blue circular icon. The main area has tabs "Incident" and "Basic Info" (which is selected). A table with three columns is displayed: "Assignment", "Name", and "Method of Contact". The table has 15 rows, each with empty cells for data entry. A vertical scroll bar is on the right side of the table.

ICS205A message files are distinguished by the extension "25A". Template files are assigned the extenstion "25T".

This optional form is used in conjunction with the Incident Radio Communications Plan, ICS 205. Whereas the ICS 205 is used to provide information on all radio frequencies down to the Division/Group level, the Communications List, ICS 205A, lists methods of contact for personnel assigned to the incident (radio frequencies, phone numbers, pager numbers, etc.), and functions as an incident directory.

1. Incident Name Enter the name assigned to the incident.
2. Operational Period Enter the time interval for which the form applies.
3. Basic Local Comms Enter the communications methods assigned and used for each Information assignment.
  - Assignment: Enter the ICS Organizational assignment.
  - Name: Enter the name of the contact person for the assignment.
  - Contact Method(s): Enter the radio frequency, telephone number(s), etc. for each assignment.
4. Prepared By Enter the name of the Communications Unit Leader preparing the form. Date/Time Enter date (month, day, year) and time prepared (24-hour clock).

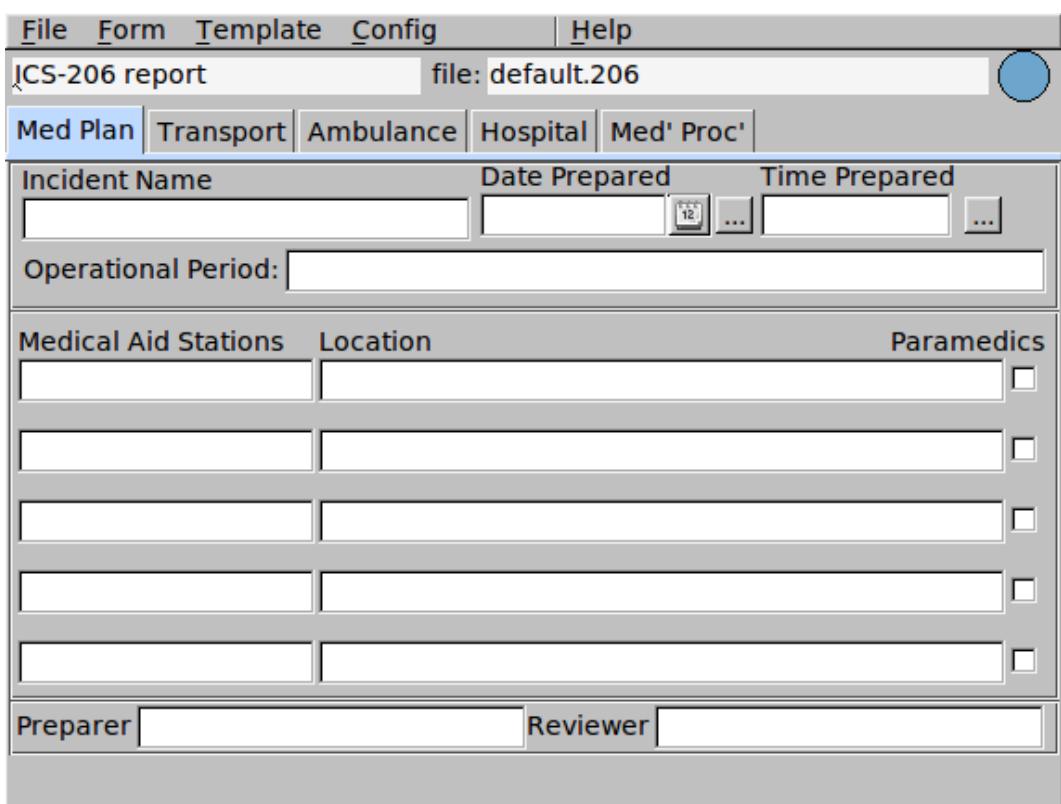
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## Chapter 13

### ICS-206 messages

The user prepares, answers and views all data files from the multi-tab user interface. This is a very large form with many repeating entry lines.



The screenshot shows a window titled "ICS-206 report" with the file path "file: default.206". The menu bar includes "File", "Form", "Template", "Config", and "Help". The tabs at the top are "Med Plan" (selected), "Transport", "Ambulance", "Hospital", and "Med' Proc'". The main content area contains the following fields:

- Incident Name:** Text input field.
- Date Prepared:** Date input field with a calendar icon and a "..." button.
- Time Prepared:** Time input field with a "..." button.
- Operational Period:** Text input field.
- Medical Aid Stations:** A table with columns "Location" and "Paramedics". It contains five rows, each with two text input fields and a checkbox.
- Preparer:** Text input field.
- Reviewer:** Text input field.

File Form Template Config | Help

ICS-206 report file: default.206

Med Plan Transport Ambulance Hospital Med' Proc'

Ambulance Services

Service Name	Address	Phone	Paramedics
			<input type="checkbox"/>

File Form Template Config | Help

ICS-206 report file: default.206

Med Plan Transport Ambulance Hospital Med' Proc'

Indicent Ambulances

Name	Location	Paramedics
		<input type="checkbox"/>

File Form Template Config | Help

ICS-206 report file: default.206

Med Plan Transport Ambulance Hospital **Med' Proc'**

Hospitals

Name	Address	Phone
Travel Time Air:	Gnd	<input type="checkbox"/> Helipad <input type="checkbox"/> Burn center
Travel Time Air:	Gnd	<input type="checkbox"/> Helipad <input type="checkbox"/> Burn center
Travel Time Air:	Gnd	<input type="checkbox"/> Helipad <input type="checkbox"/> Burn center
Travel Time Air:	Gnd	<input type="checkbox"/> Helipad <input type="checkbox"/> Burn center
Travel Time Air:	Gnd	<input type="checkbox"/> Helipad <input type="checkbox"/> Burn center

File Form Template Config | Help

ICS-206 report file: default.206

Med Plan Transport Ambulance Hospital **Med' Proc'**

I

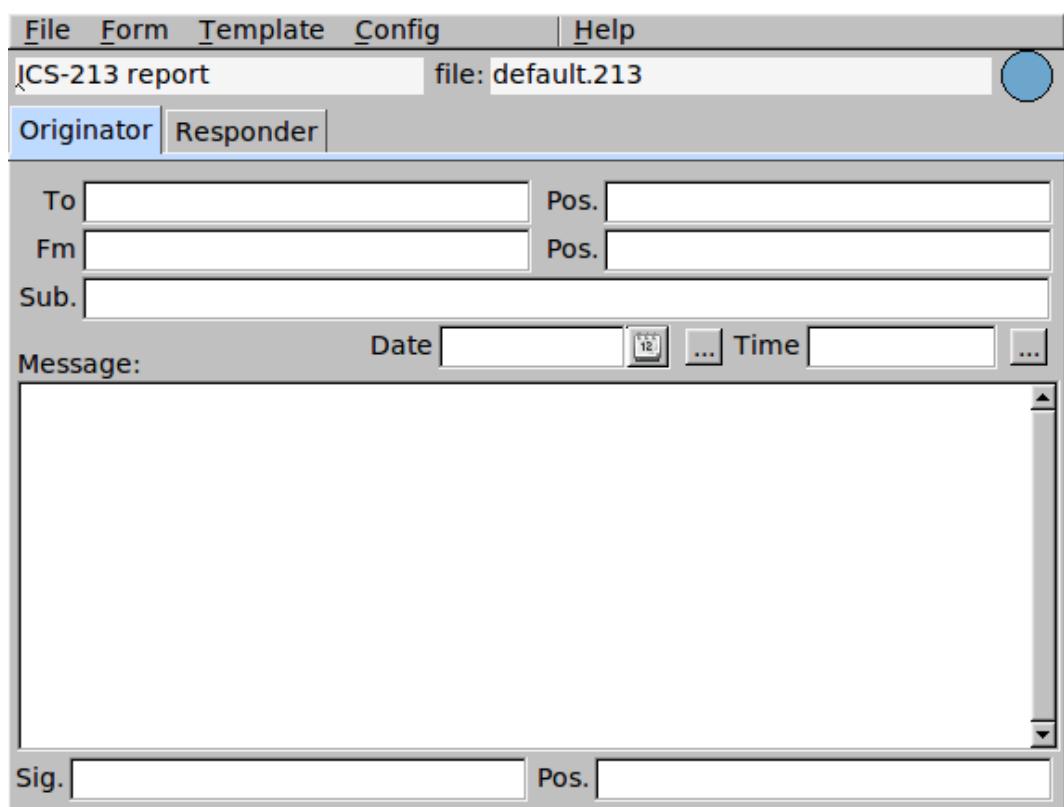
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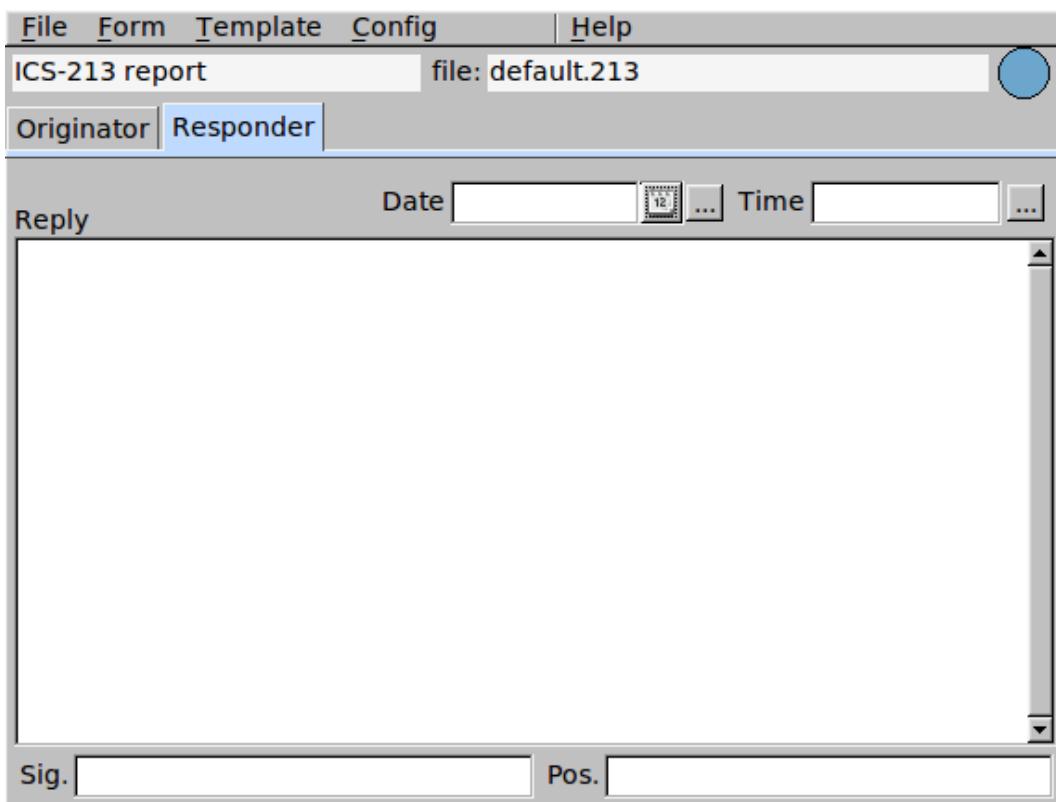
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## Chapter 14

### ICS-213 messages

The user prepares, answers and views all data files from the single user interface dialog:





ICS213 message files are distinguished by the extension "f2s". Template files are assigned the extenstion "f2t". The data file for this example "MedEm\_001.f2s" contains:

```
===== file contents =====
<flmsg>1.0.0b1
<to:5 k2lbt
<p1:0
<fm:5 w1hkj
<p2:0
<d1:10 2009-09-29
<t1:9 00:03 UTC
<sb:29 Situation Report - F3 tornado
<s1:11 Dave Freese
<p3:16 On scene manager
<s2:12 Helen Freese
<p4:11 Coordinator
<d2:10 2009-09-29
<t2:9 00:22 UTC
<mg:211 1. # injured 4
2. # casualties 2
3. # displaced 30
4. Available doctors 1
5. Available nurses 2
6. Request:
   a. shelter 30
   b. morgue transport 2
   c. ambulance transport 4, from Hazel Green UMC to City Hosp.

<rp:100 Expect ambulance by 03:00 UTC
Coronor pickup by 08:00 UTC
Shelter ready at Hazel Green High School.
===== file contents =====
```

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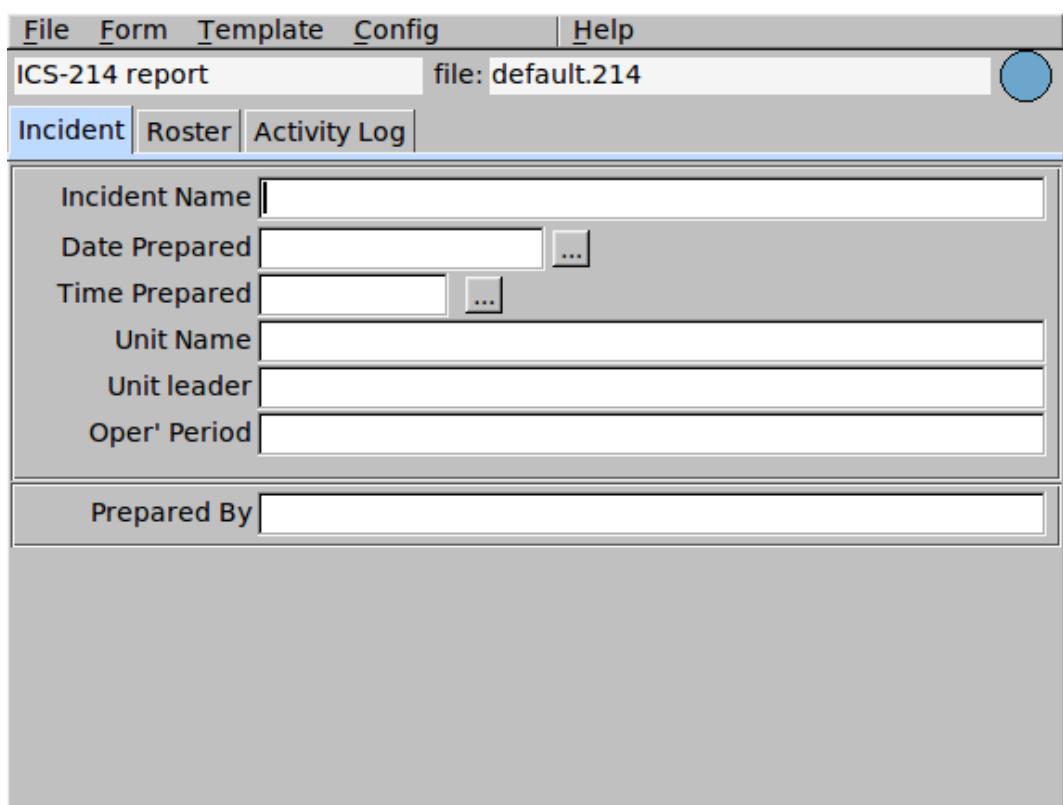
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## Chapter 15

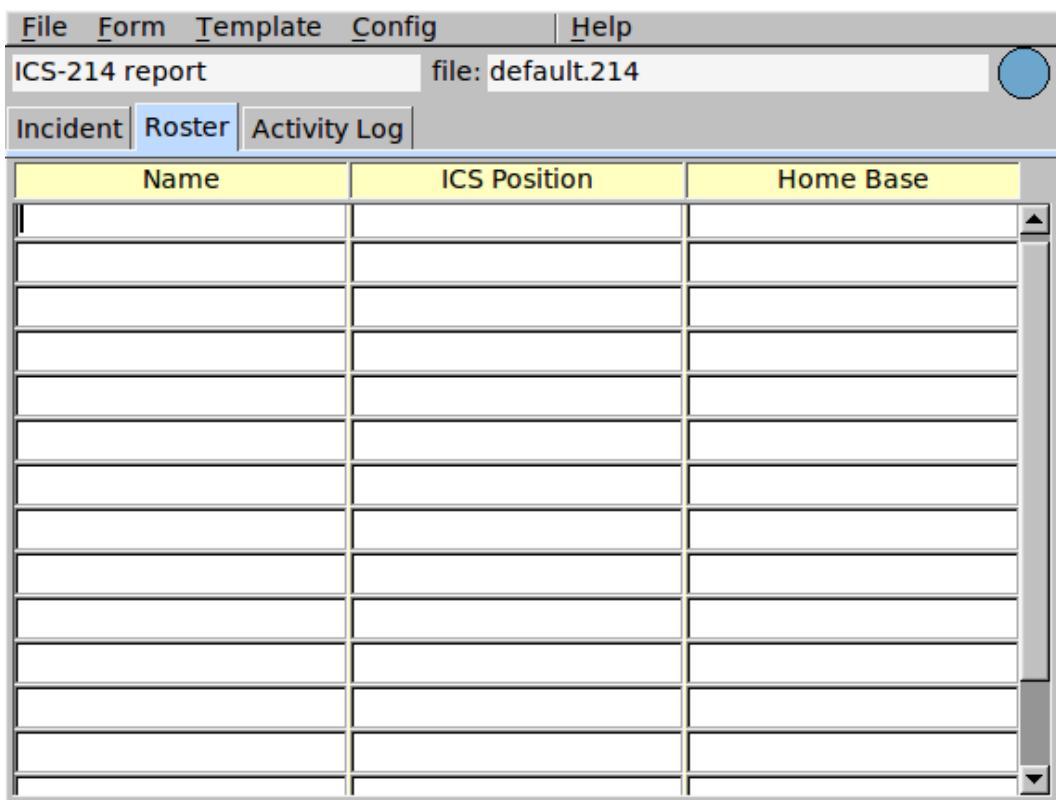
### ICS-214 Unit Log

The user prepares, answers and views all data files from the multi-tab user interface dialog:

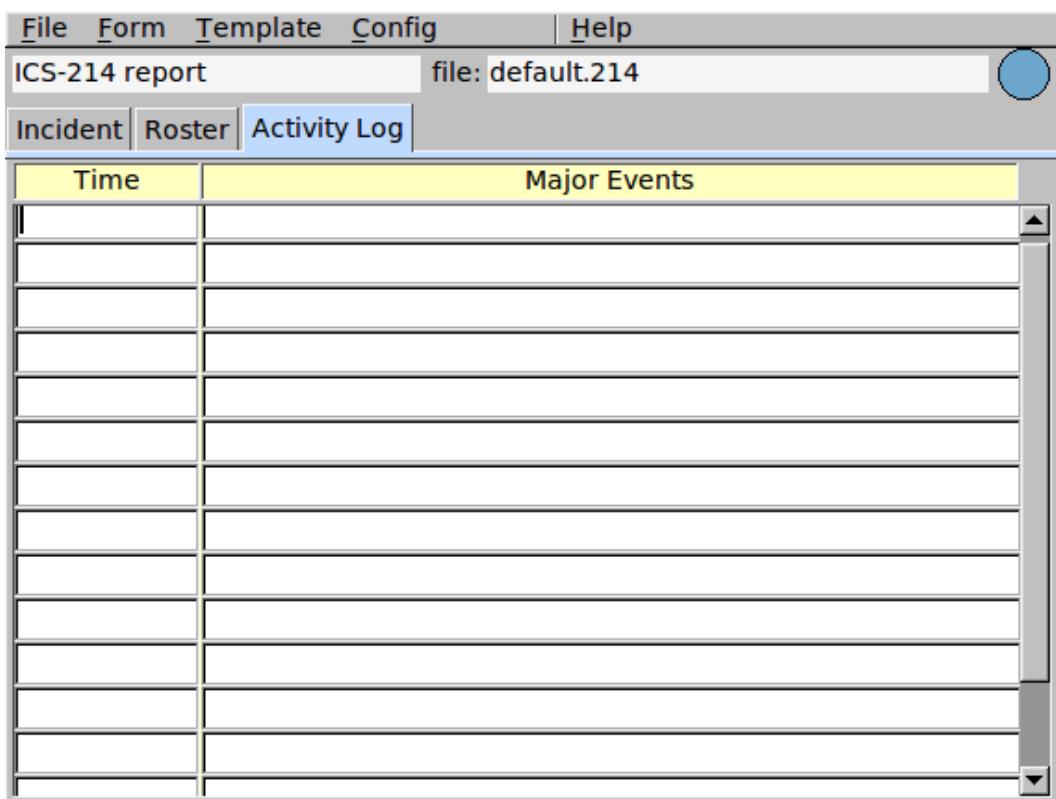


The screenshot shows a Windows-style application window for the 'ICS-214 report'. The window has a menu bar with 'File', 'Form', 'Template', 'Config', 'Help', and a status bar showing 'file: default.214'. The main area has three tabs: 'Incident' (selected), 'Roster', and 'Activity Log'. Below the tabs is a form with the following fields:

Incident Name	<input type="text"/>
Date Prepared	<input type="text"/> <input type="button" value="..."/>
Time Prepared	<input type="text"/> <input type="button" value="..."/>
Unit Name	<input type="text"/>
Unit leader	<input type="text"/>
Oper' Period	<input type="text"/>
Prepared By	<input type="text"/>



Name	ICS Position	Home Base



Time	Major Events

ICS214 message files are distinguished by the extension "214". Template files are assigned the extension "214T".

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## Chapter 16

### ICS-216 Radio Requirements Worksheet

The user prepares, answers and views all data files from the multi-tab user interface dialog:

The screenshot shows a Windows-style application window titled 'ICS-216 report' with the file path 'file: default.216'. The menu bar includes 'File', 'Form', 'Template', 'Config', and 'Help'. The top right corner features a blue circular button. The main interface has a tab bar with 'Incident' (selected), 'Div-Grp 1', 'Div-Grp 2', 'Div-Grp 3', and 'Div-Grp 4'. Below the tabs is a list of fields with labels and input fields:

1. Incident Name	<input type="text"/>
2. Date	<input type="text"/> <input type="button" value="..."/>
3. Time	<input type="text"/> <input type="button" value="..."/>
4. Branch	<input type="text"/>
5. Agency	<input type="text"/>
6. Oper' Period	<input type="text"/>
7. Tac' Freq'	<input type="text"/>
Prepared By	<input type="text"/>

ICS-216 report file: default.216

Incident Div-Grp 1 Div-Grp 2 Div-Grp 3 Div-Grp 4

Agency	ID No.	Radio Requirements

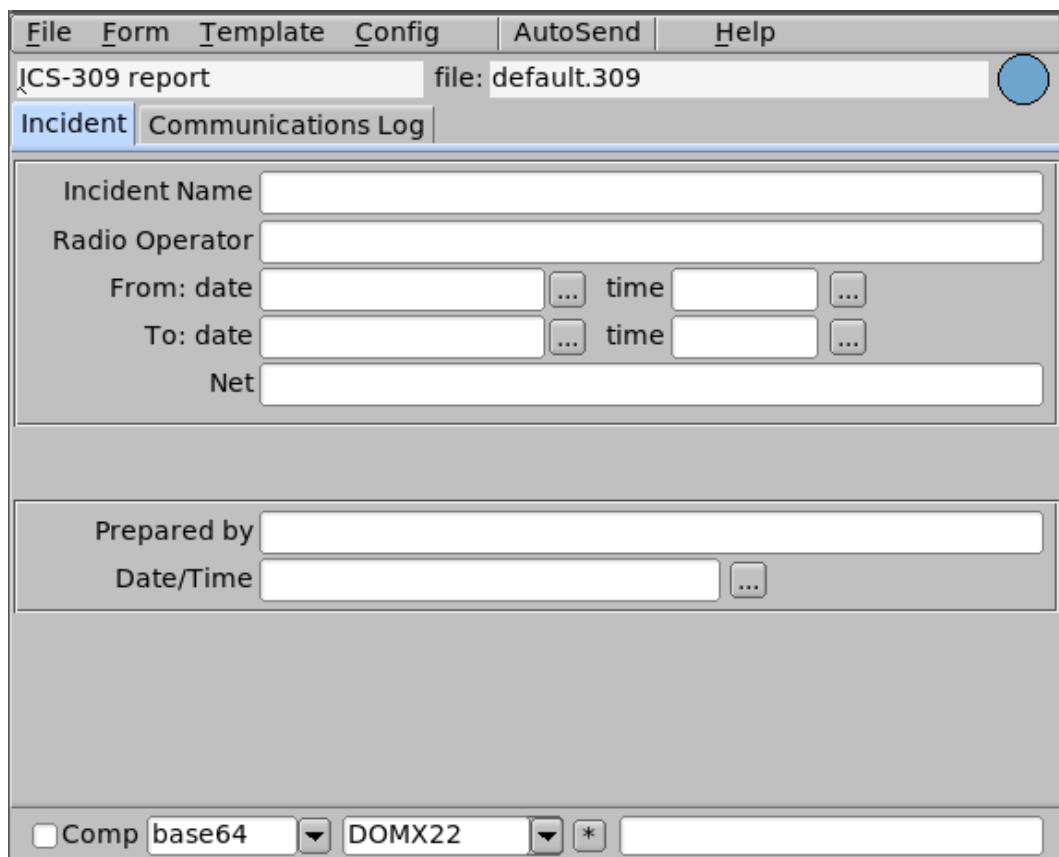
ICS216 message files are distinguished by the extension "216". Template files are assigned the extension "216T".

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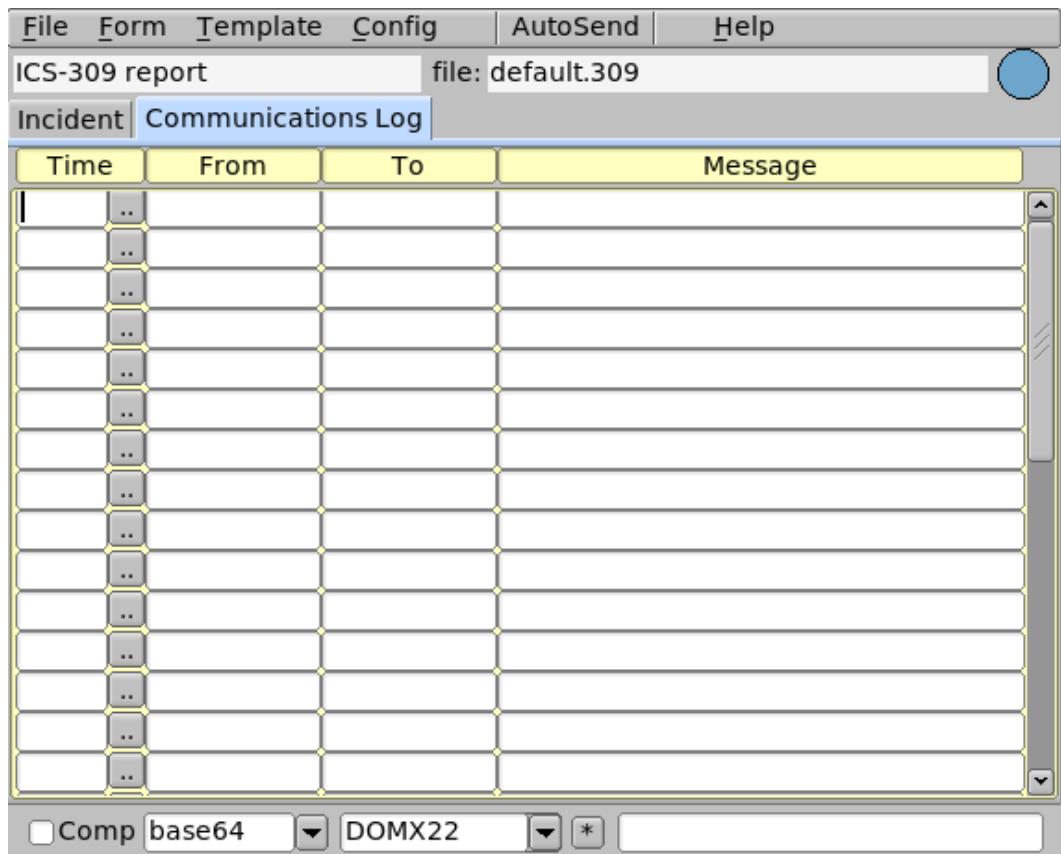
## Chapter 17

# ICS-309 Radio Incident Communications Log

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The screenshot shows a Windows-style application window for the ICS-309 Radio Incident Communications Log. The window has a menu bar with File, Form, Template, Config, AutoSend, and Help. The title bar displays 'ICS-309 report' and 'file: default.309'. The main interface features two tabs: 'Incident' (selected) and 'Communications Log'. The 'Incident' tab contains fields for Incident Name, Radio Operator, and date/time ranges for 'From' and 'To'. It also has a 'Net' field. The 'Communications Log' tab is currently inactive. At the bottom, there is a toolbar with buttons for 'Comp', 'base64', 'DOMX22', and a wildcard character (\*).



IC309 message files are distinguished by the extension "309". Template files are assigned the extension "309T".

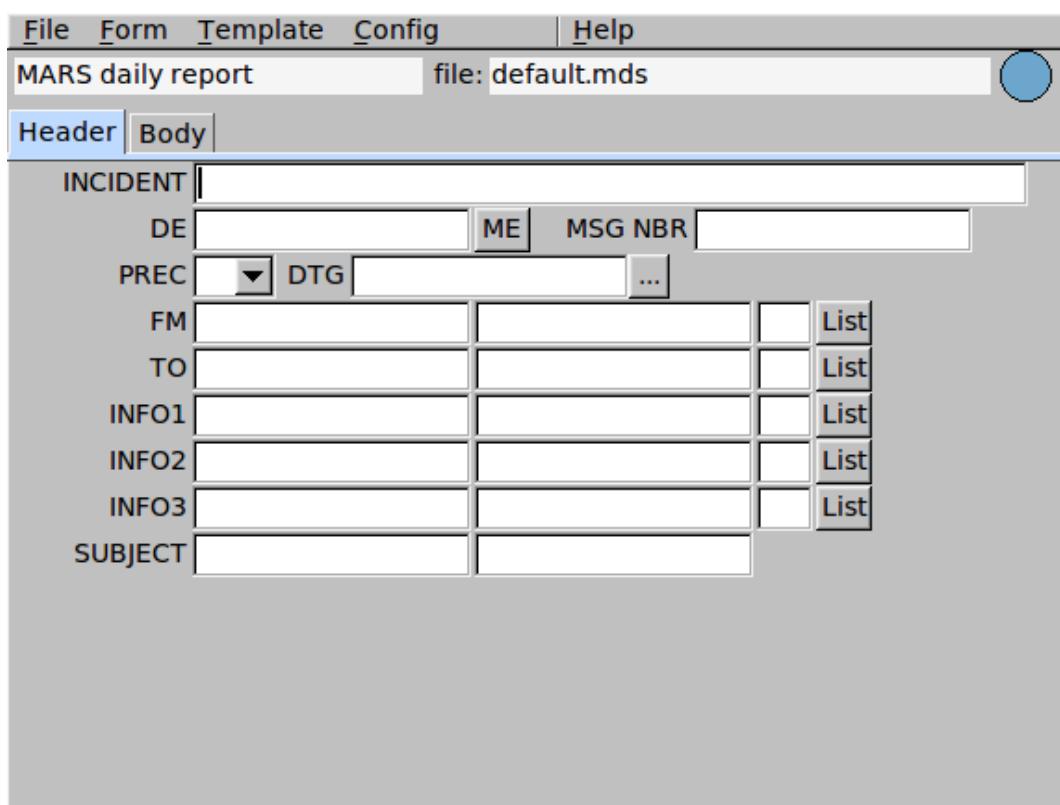
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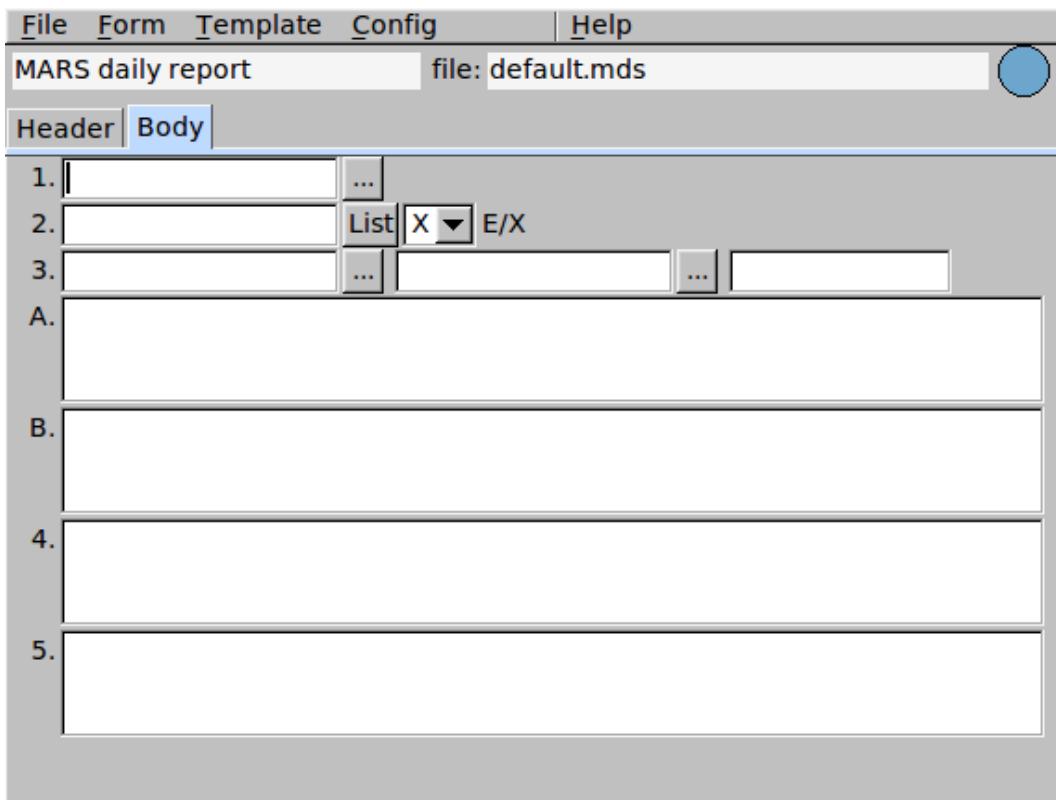
## Chapter 18

### MARS Daily message

The user prepares, and edits from either the MARS Daily tabs



The screenshot shows the MARS daily report application interface. The window title is "MARS daily report" and the file path is "file: default.mds". The interface has a menu bar with "File", "Form", "Template", "Config", and "Help". Below the menu is a toolbar with a blue circular button. The main area is divided into "Header" and "Body" tabs, with "Header" selected. The "Header" tab contains fields for "INCIDENT" (a large text input), "DE" (with sub-fields "ME" and "MSG NBR"), "PREC" (with a dropdown arrow, "DTG" input, and "... button"), and "FM", "TO", "INFO1", "INFO2", "INFO3", and "SUBJECT" (all with "List" buttons to the right). The "Body" tab is currently empty.



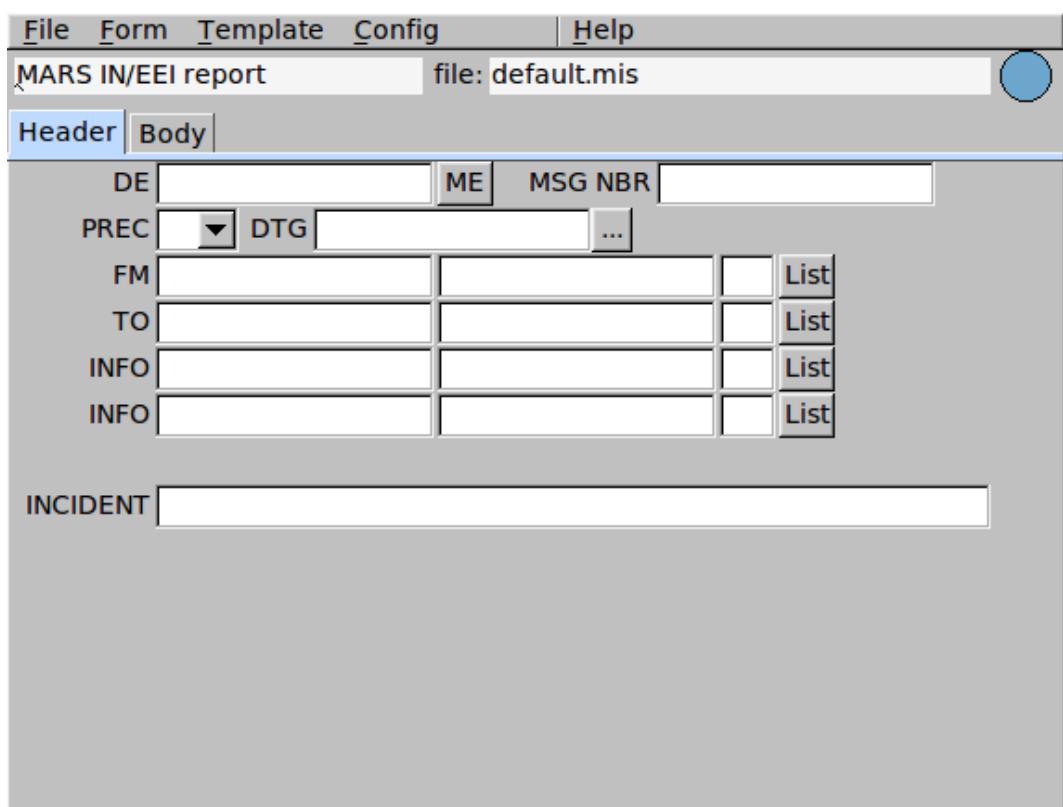
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## Chapter 19

### MARS IN/EEI message

The user prepares, and edits from either the MARS IN/EEI tabs:



The screenshot shows a software application window titled 'MARS IN/EEI report' with the file path 'file: default.mis'. The window has a menu bar with 'File', 'Form', 'Template', 'Config', and 'Help' options. Below the menu is a toolbar with a blue circular button. The main area contains two tabs: 'Header' (selected) and 'Body'. The 'Header' tab displays fields for 'DE' (with a dropdown menu), 'ME', 'MSG NBR', 'PREC' (with a dropdown menu), 'DTG' (with a date/time picker), and a '...' button. Below these are five rows for 'FM', 'TO', and 'INFO' fields, each with a 'List' button. At the bottom is an 'INCIDENT' field.

File Form Template Config | Help

MARS IN/EEI report file: default.mis

Header Body

1. REF	<input type="text"/>	ST	<input type="text"/>		
A. INC	<input type="text"/>	LOC	<input type="text"/>	TIME	<input type="text"/>
B. MED	<input type="text"/>				
C. TRNS	<input type="text"/>				
D. DMG	<input type="text"/>				
E. UTIL	<input type="text"/>				
F. COMM	<input type="text"/>				
G. INFO	<input type="text"/>	TIME	<input type="text"/>		

Remarks

H.

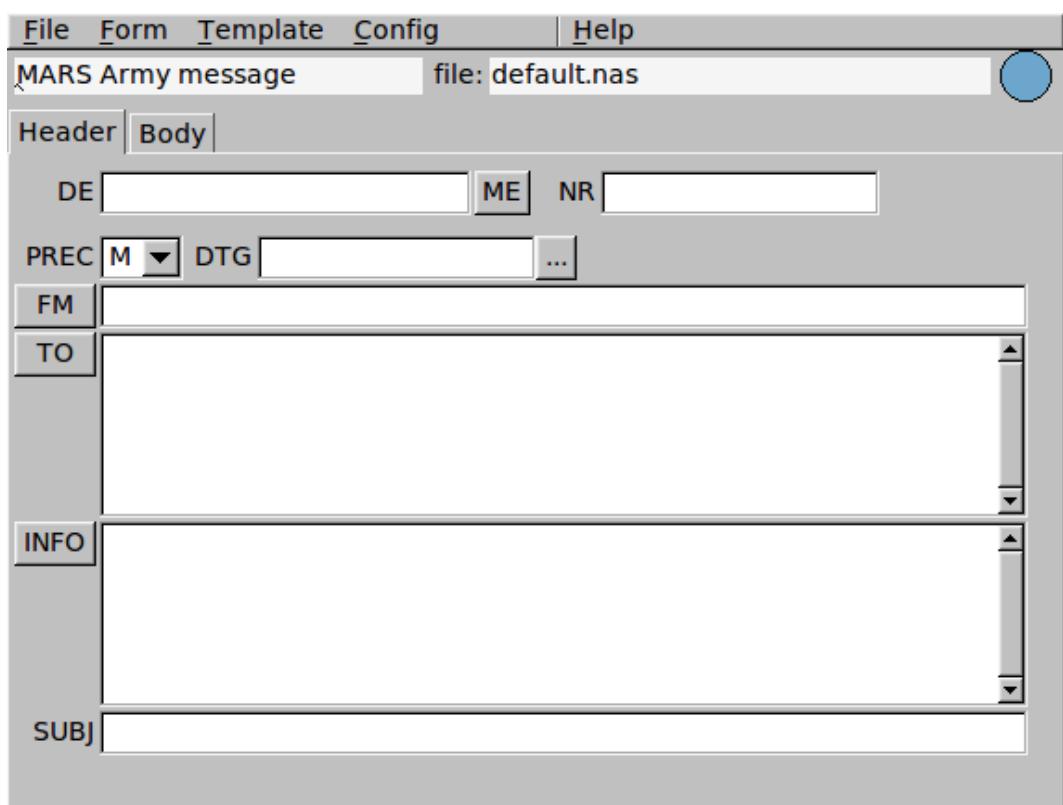
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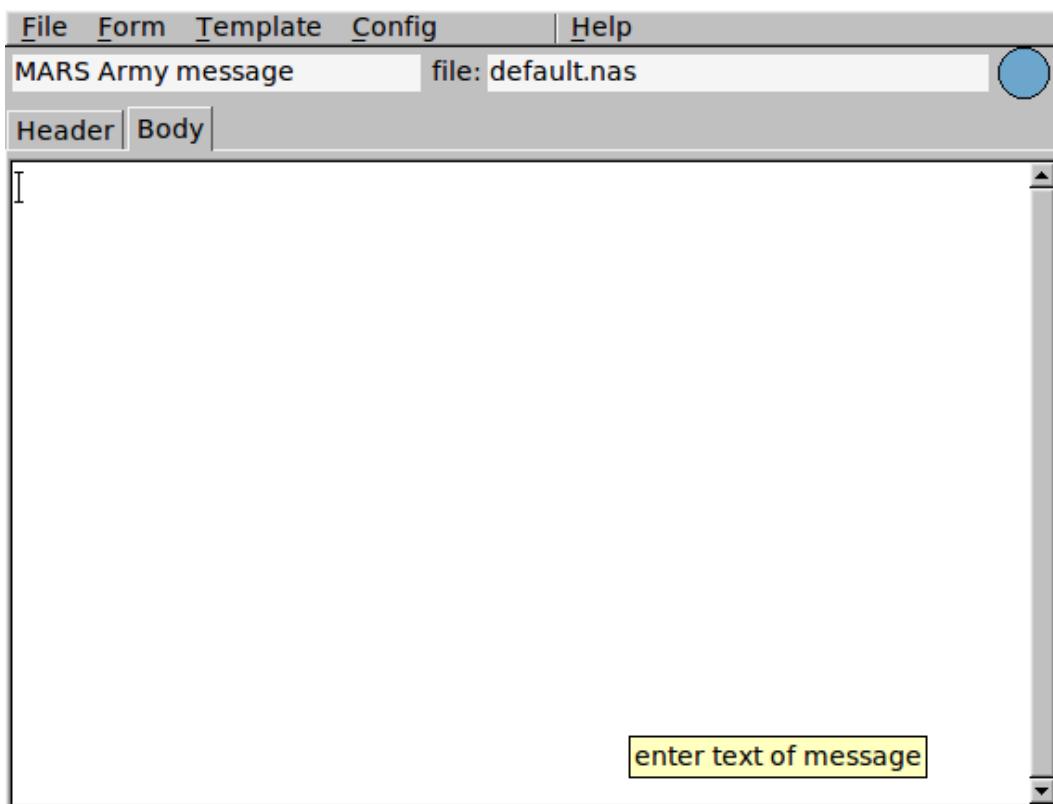
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## Chapter 20

### MARS message

The user prepares, and edits from either the MARS Army or the MARS Navy tab:





Both use a common body for the text of the message.

The principal difference is in the assignment of message precedence.

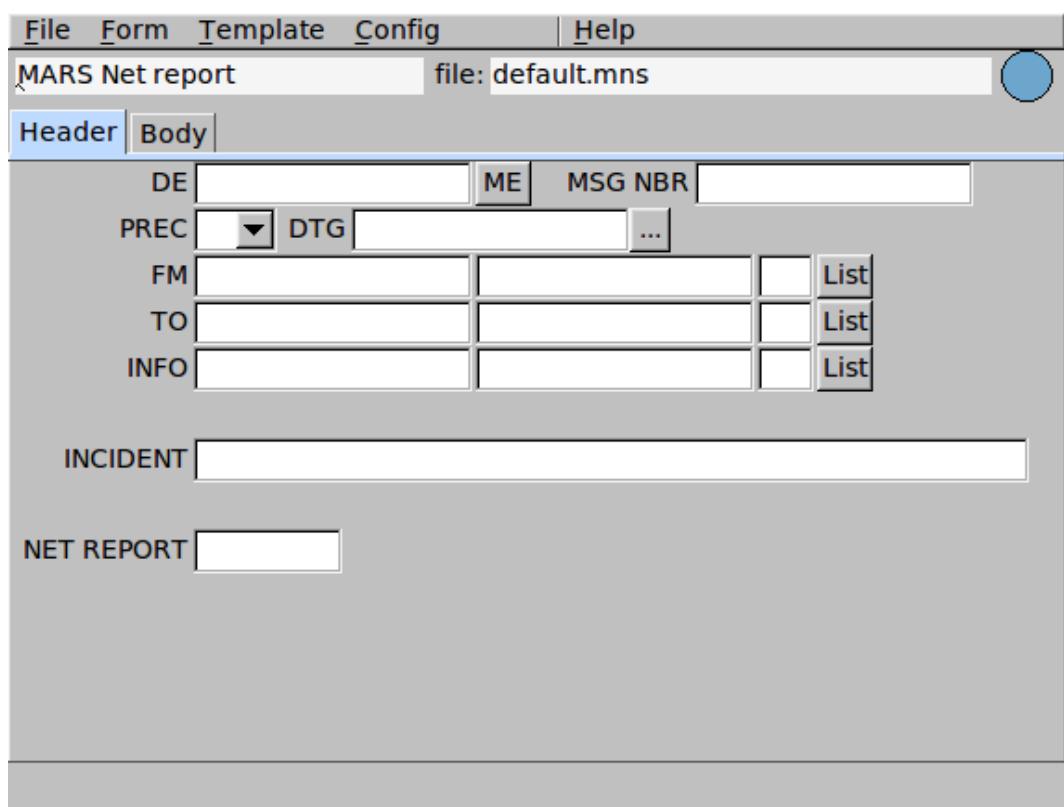
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## Chapter 21

### MARS Net message

The user prepares, and edits from either the MARS Net tabs:

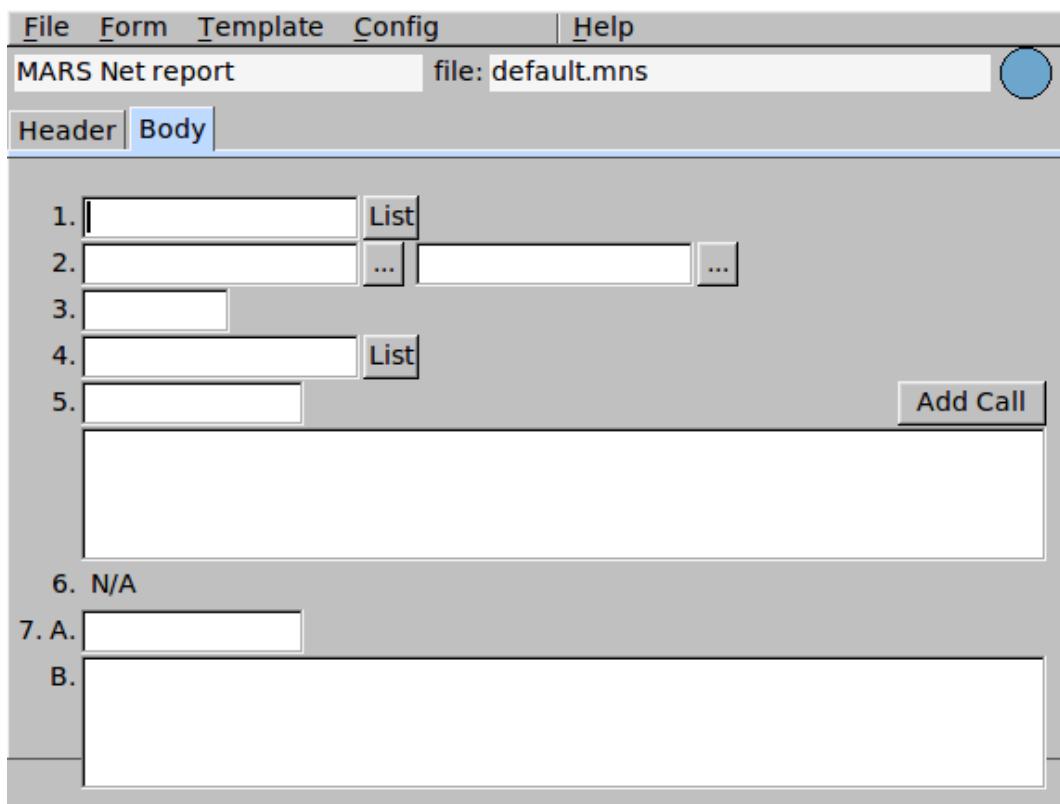


The screenshot shows the MARS Net message editor window. The menu bar includes File, Form, Template, Config, Help, and a status bar showing 'file: default.mns'. The main area has tabs for Header and Body, with Header selected. The Header tab contains fields for DE (with ME and MSG NBR sub-fields), PREC (with a dropdown and DTG sub-field), FM, TO, and INFO, each with a 'List' button. Below these are fields for INCIDENT and NET REPORT.

DE	ME	MSG NBR
PREC	DTG	...
FM		List
TO		List
INFO		List

INCIDENT

NET REPORT



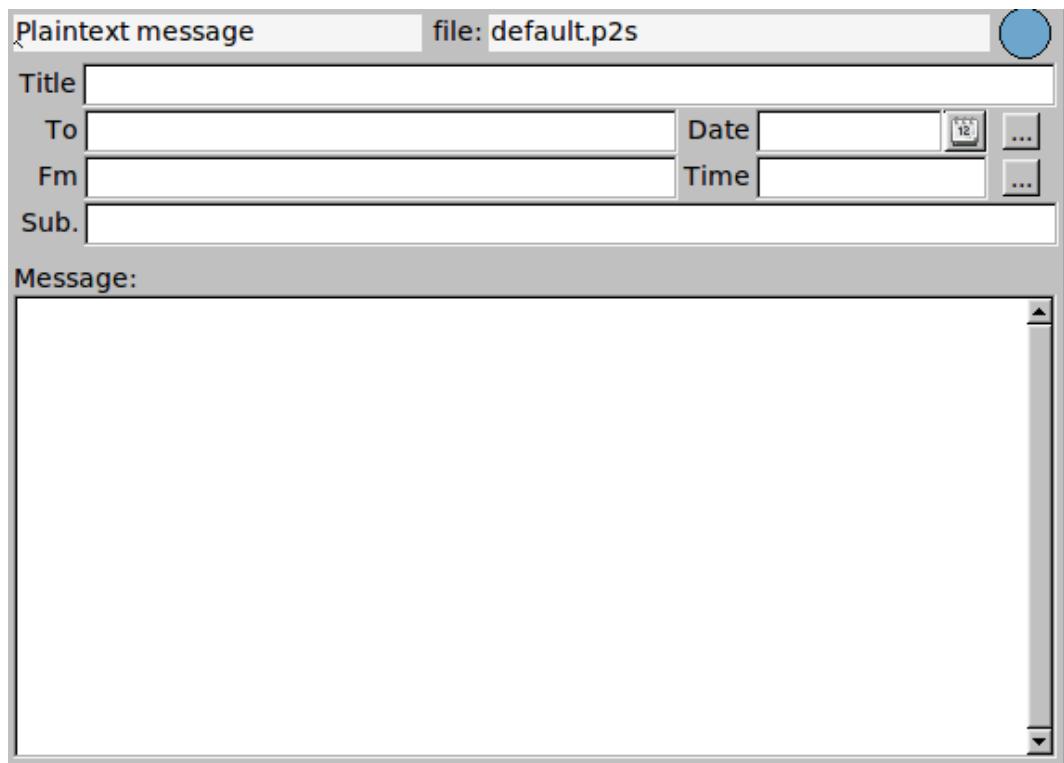
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## Chapter 22

### Plain text (general) messages

The user prepares and views all data files from the single user interface dialog:

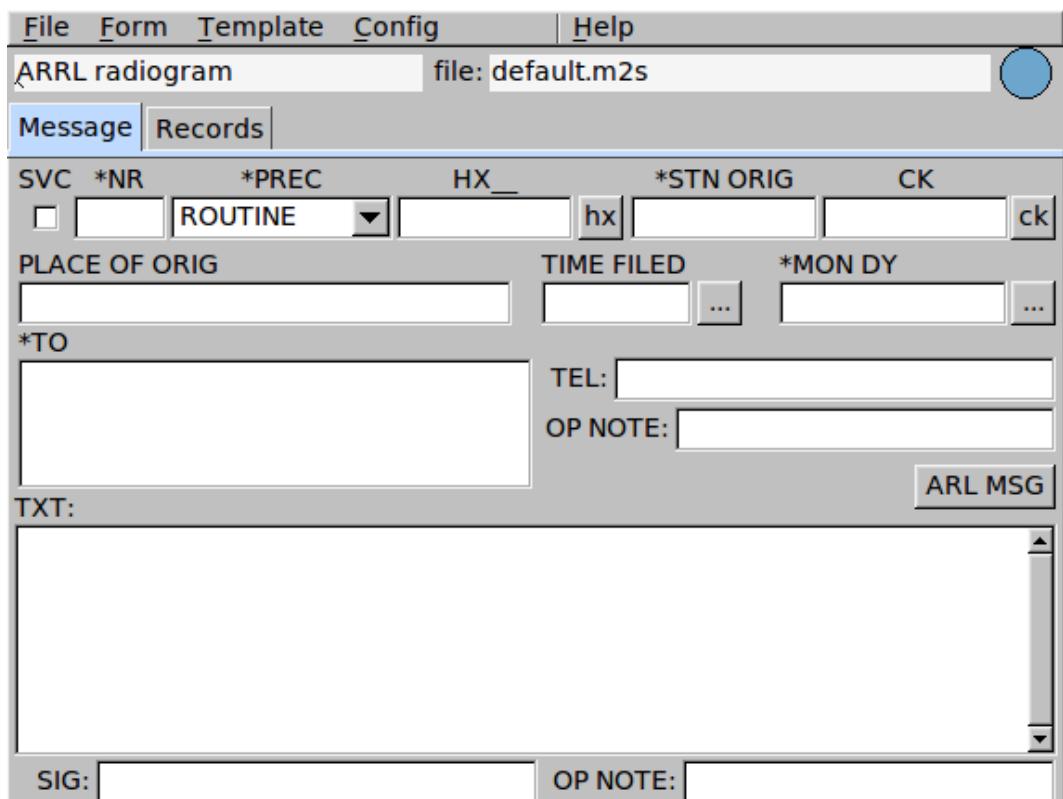




## Chapter 23

### Radiogram message

The user prepares, and edits from the Radiogram tab:



The screenshot shows a software interface for creating a radiogram message. The window title is "ARRL radiogram" and the file is "default.m2s". The "Message" tab is selected. The form includes fields for SVC, \*NR, \*PREC, HX, \*STN ORIG, CK, PLACE OF ORIG, TIME FILED, \*MON DY, \*TO, TEL, OP NOTE, and a large TXT area for message content. A "SIG:" field and an "OP NOTE:" field are at the bottom. A "ARL MSG" button is located on the right side of the message area.

The CK value will be computed for you when the data is saved or a text document created for printing or transmission. You can also force a CK by pressing the "ck" button.

ARL message creation is aided by a dialog which is exposed when the ARL MSG button is pressed

ARL #	Message:
ONE TWO THREE FOUR FIVE SIX	Everyone safe here. Please don't worry.
fill 1:	
fill 2:	
fill 3:	
fill 4:	
<input type="checkbox"/> Insert "X" between fields <span style="float: right;"><input type="button" value="Cancel"/> <input type="button" value="Add"/></span>	

The number of "fill" edit entries will vary with the requirement of the selected ARL message. Multiple ARL messages may be inserted into the Message text.

Pressing the Check button on the maint Radiogram tab will force all of the fields to be tested for correctness. The Message text will be converted to upper case, the leading and trailing spaces and end-of-line characters removed. Periods and commas will be converted to the stop character character, 'X', unless they are an integral part of a word, such as NBEMS.files. The precedence and handling fields are fixed to the selector values. You may optionally elect to insert X between each field. This might help to increase readability of long fields with multiple words.

The records tab contains data relevant to the transmission and receipt of the message:

File	Form	Template	Config	Help
ARRL radiogram				file: default.m2s
<input type="button" value="Message"/> <input type="button" value="Records"/>				
RCVF FM: <input type="text"/> NET: <input type="text"/> DT/TM <input type="text"/> ... SENT TO: <input type="text"/> NET: <input type="text"/> DT/TM <input type="text"/> ... ORIG - FM - DATE/TIME <input type="text"/> DT/TM <input type="text"/> ... Name/Addr/City/Tel				
DLVD -TO - DATE/TIME <input type="text"/> DT/TM <input type="text"/> ... Name/Addr/City/Tel				

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## Chapter 24

# Red Cross On Site Detailed Damage Assessment Worksheet

The user prepares, answers and views all data files from the multi-tab user interface dialog:

The screenshot shows a Windows-style application window for 'On-Site Detailed Damage Asse' (part of the file name 'default.39s'). The window has a menu bar with File, Form, Template, Config, and Help. The title bar shows the file name. A toolbar below the menu has buttons for 5739-1, 5739-2, and # 1 through # 10. The main area contains fields for DR #, DR Name, State, County, City, Street, Geo' Ref', and Date. Below this is an 'Add' Info' section with a scrollable text area and fields for Worker and Supervisor. The interface is designed for data entry and management.

File Form Template Config | Help

On-Site Detailed Damage Asse file: default.39s

5739-1 | 5739-2 | # 1 | # 2 | # 3 | # 4 | # 5 | # 6 | # 7 | # 8 | # 9 | # 10

Damage totals

SF destroyed	MH destroyed	Apt destroyed
<input type="text"/>	<input type="text"/>	<input type="text"/>
SF major	MH major	Apt major
<input type="text"/>	<input type="text"/>	<input type="text"/>
SF minor	MH minor	Apt minor
<input type="text"/>	<input type="text"/>	<input type="text"/>
SF affected	MH affected	Apt affected
<input type="text"/>	<input type="text"/>	<input type="text"/>
SF inacc'	MH inacc'	Apt inacc'
<input type="text"/>	<input type="text"/>	<input type="text"/>

File Form Template Config | Help

On-Site Detailed Damage Asse file: default.39s

5739-1 | 5739-2 | # 1 | # 2 | # 3 | # 4 | # 5 | # 6 | # 7 | # 8 | # 9 | # 10

Damage Classification

House nbr	Apt nbr			
<input type="text"/>	<input type="text"/>			
Destroyed	Major	Minor	Affected	Inacc'
<input type="checkbox"/>				
# Floors	Basement ?			
<input type="text"/>	<input type="text"/>			
Water level	W.L. in base'			
<input type="text"/>	<input type="text"/>			
Elect'?	Occ. Type	OR	901	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Description:

Name:

There are 10 Damage Classification sub forms, all are identical.

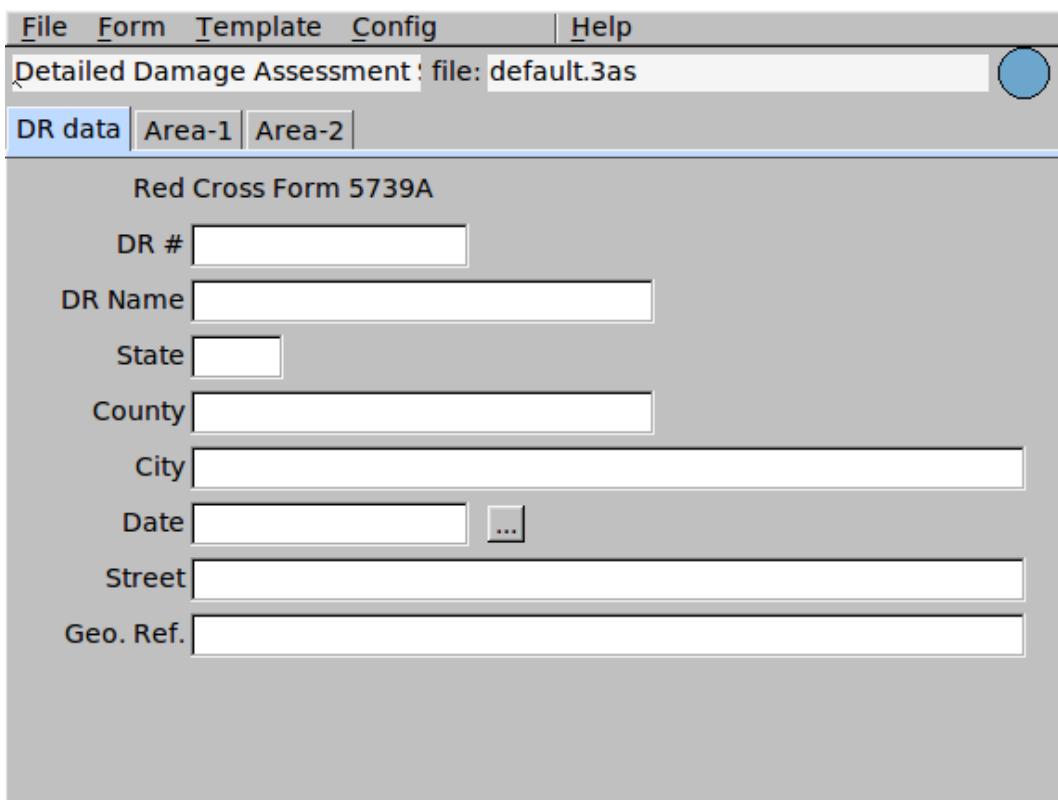
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## Chapter 25

# Red Cross Detailed Damage Assessment Supplemental Worksheet

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The screenshot shows a Windows-style application window titled "Detailed Damage Assessment" with the file "default.3as". The window has a menu bar with "File", "Form", "Template", "Config", and "Help". Below the menu is a toolbar with tabs: "DR data" (selected), "Area-1", and "Area-2". The main area is titled "Red Cross Form 5739A" and contains the following fields:

DR #	<input type="text"/>
DR Name	<input type="text"/>
State	<input type="text"/>
County	<input type="text"/>
City	<input type="text"/>
Date	<input type="text"/> <input type="button" value="..."/>
Street	<input type="text"/>
Geo. Ref.	<input type="text"/>

range of address #'s

# affected dwellings

Basements y/n?

Destroyed %

Major damage %

Minor damage %

Affected %

Inaccessible %

Unknown/None %

General desc.

Area-2 Assessment worksheet is identical to Area-1

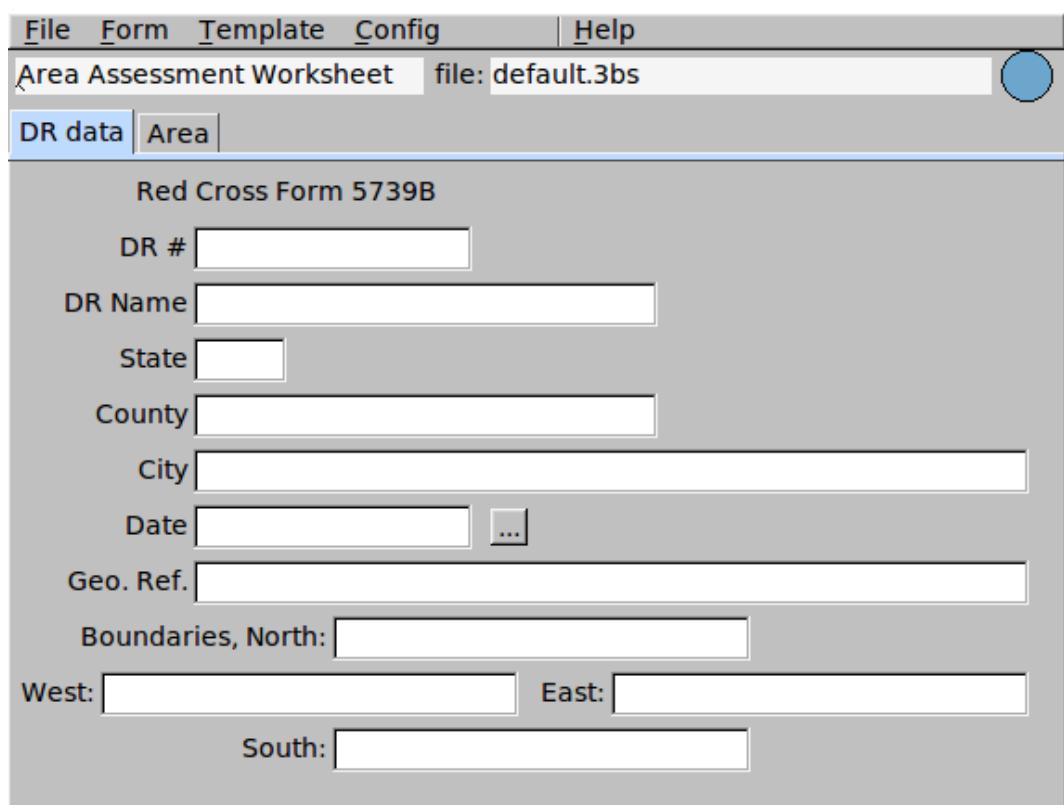
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## Chapter 26

### Red Cross Area Assessment Worksheet

The user prepares, answers and views all data files from the multi-tab user interface dialog:



The screenshot shows a Windows-style application window titled "Area Assessment Worksheet" with the file path "file: default.3bs". The menu bar includes "File", "Form", "Template", "Config", and "Help". The main window has two tabs: "DR data" (selected) and "Area". The "DR data" tab displays the "Red Cross Form 5739B" with the following fields:

- DR # (text input field)
- DR Name (text input field)
- State (text input field)
- County (text input field)
- City (text input field)
- Date (text input field with a browse button "...")
- Geo. Ref. (text input field)
- Boundaries, North: (text input field)
- West: (text input field)
- East: (text input field)
- South: (text input field)

File Form Template Config | Help

Area Assessment Worksheet file: default.3bs

DR data Area

# affected dwellings

Destroyed %

Major damage %

Minor damage %

Affected %

Inaccessible %

Unknown/None %

Basements?

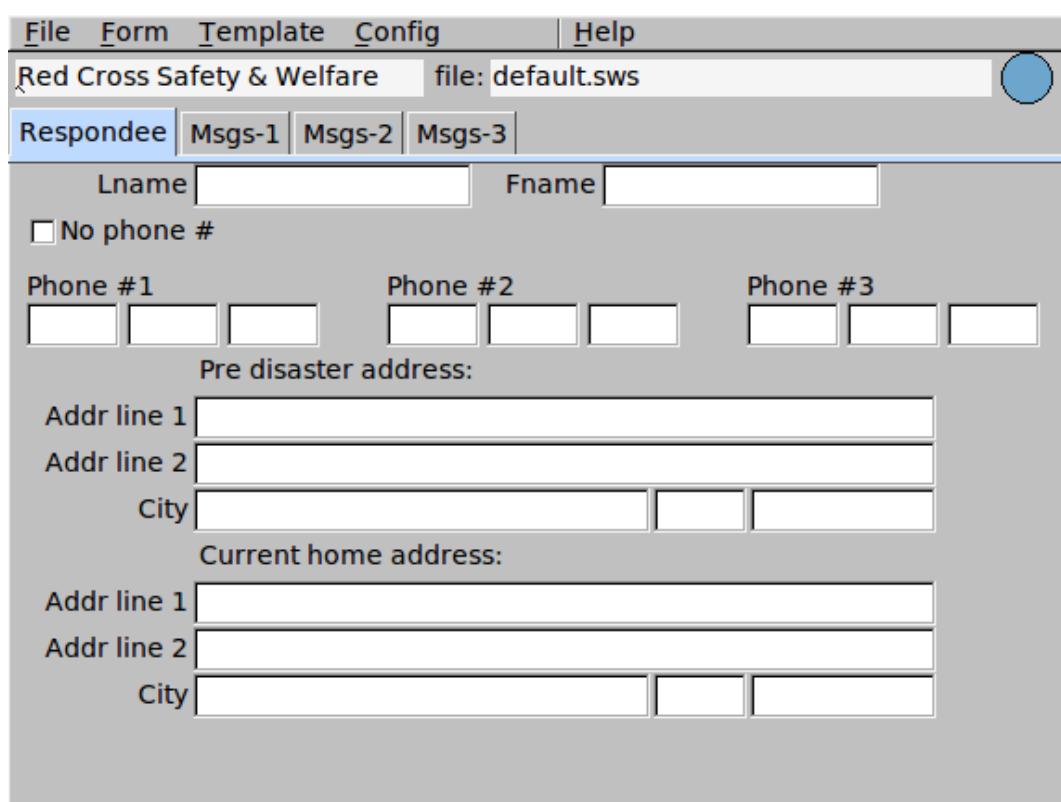
General info:

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## Chapter 27

### Red Cross Safety and Welfare message

The user prepares, and edits from either the Red Cross Safety - Welfare tabs:



The screenshot shows a software application window titled "Red Cross Safety & Welfare" with the file path "file: default.sws". The menu bar includes "File", "Form", "Template", "Config", and "Help". The toolbar has buttons for "Respondee", "Msgs-1", "Msgs-2", and "Msgs-3". The main form is divided into sections for personal information, phone numbers, and addresses. The "Respondee" tab is selected, showing fields for Lname, Fname, and three phone number fields (Phone #1, Phone #2, Phone #3). There is a checkbox for "No phone #". Below these are fields for "Pre disaster address" (Addr line 1, Addr line 2, City) and "Current home address" (Addr line 1, Addr line 2, City). The entire application has a light gray background.

File Form Template Config | Help

Red Cross Safety & Welfare file: default.sws

Respondee | [Msgs-1](#) | [Msgs-2](#) | [Msgs-3](#)

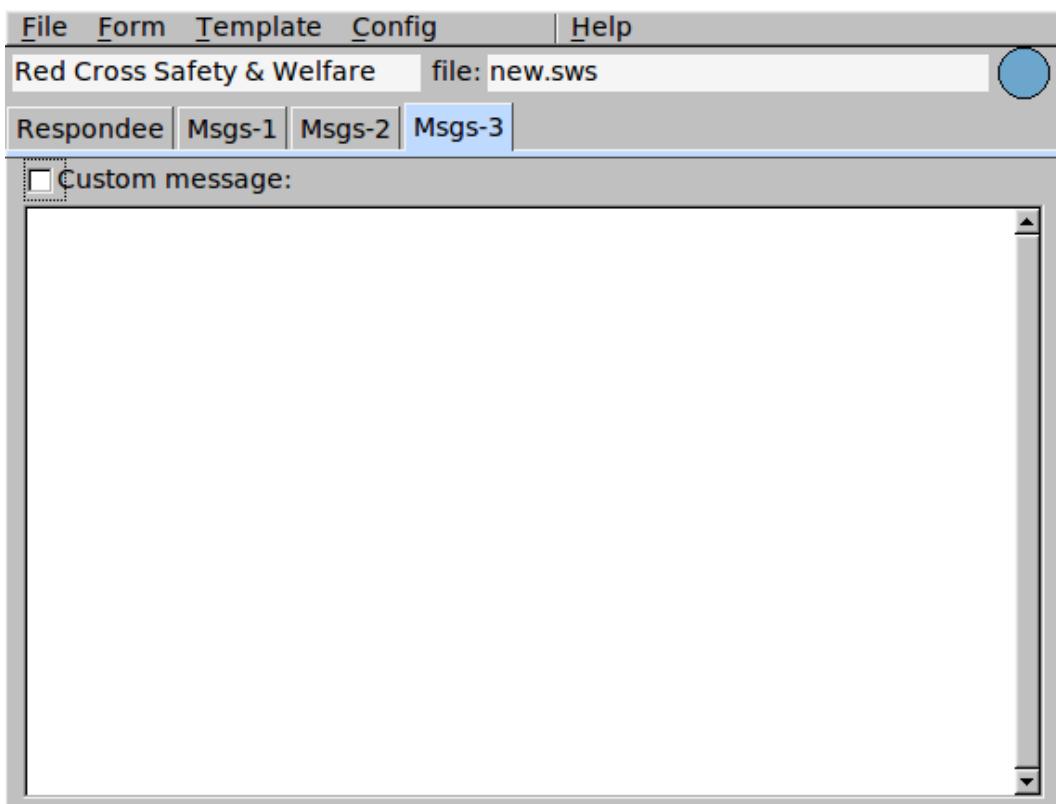
I am safe and well.  
 Family and I are safe and well.  
 Currently at shelter.  
 Currently at home.  
 Currently at friend / family / neighbor's.  
 I am evacuating to the house of a family member / friend.  
 Will make phone call when able.

File Form Template Config | Help

Red Cross Safety & Welfare file: default.sws

Respondee | [Msgs-1](#) | [Msgs-2](#) | [Msgs-3](#)

Will email when able.  
 Will mail letter / postcard when able.  
 I am safe and in the process of evacuating.  
 I have evacuated and I am safe.  
 I am evacuating to a shelter.  
 I am currently at a hotel.  
 I am currently remaining at home.



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## Chapter 28

### Transfer file

File transfers can be accomplished with or without compression and base-64 / 128 / 256 encoding.

