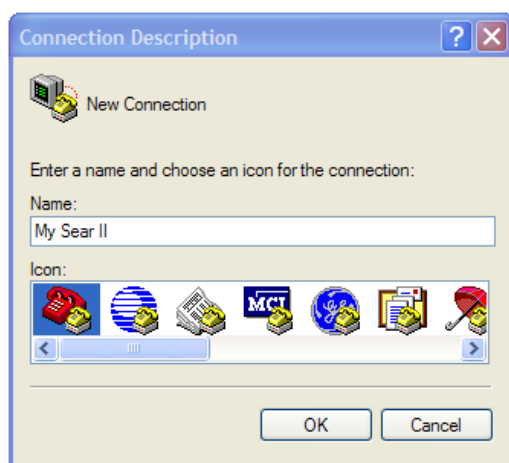


# SIEMENS

## QUICK REFERENCE GUIDE SEAR II CONFIGURATION AND HYPERTERMINAL SETUP Document No. SIG-QG-08-04-001A.1

### SEAR II – HyperTerminal Setup

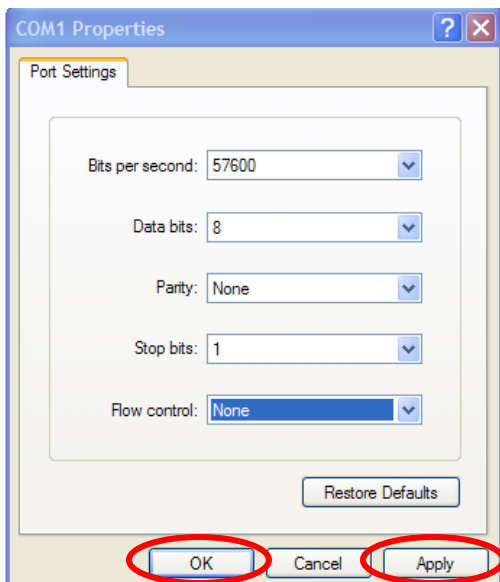
- 1) Connect serial cable from PC COM port 1 to SEAR II User port.
- 2) Go to: Start > All Programs > Accessories > Communications > HyperTerminal.



- 3) Enter name for connection – for example, 'My Sear II', click the **OK** button.
- 4) Connect using **COM1**, click the **OK** button.



- 5) Set up baud rate as shown below, click **Apply**, then click **OK** button.



- 6) Apply power to the SEAR II then type **Ctrl-L** to connect to the SEAR II unit.

## SEAR II - Step 1 - Comm. Setup (New unit only)

- 1) On SEAR II front panel, press **COMM SETUP**.
- 2) Verify the following settings (press **ENTER** after each is displayed):

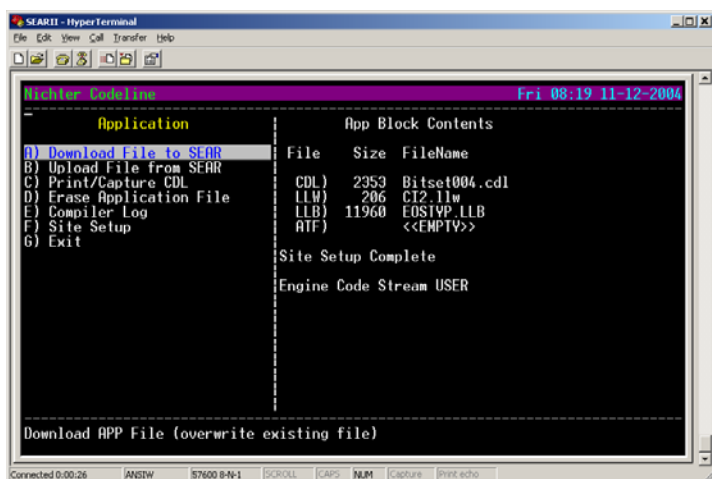
Parameter	Value
SITE TYPE	Collector
SITE (ATCS) ADDRESS (X's match GEO)	7.103.XXX.XXX.02.01
OFFICE (ATCS) ADDRESS (Not req. now)	2.XXX.XX.XXXX
POLL ID	1
MODE	Gen/ATCS
WAMS XID	DISABLED
OFFICE COMM. DEVICE	MCM (RS232)
MCM (RS232) PORT	AUX
FIELD DEVICE	None
USER PORT BAUD	57600
USER PORT DATA BITS	8
USER PORT PARITY	None
USER PORT STOP BITS	1
USER PORT FLOW CONTROL	None
AUX PORT BAUD	9600
AUX PORT DATA BITS	8
AUX PORT PARITY	None
AUX PORT STOP BITS	1
AUX PORT FLOW CONTROL	None
COMM PORT BAUD	9600
COMM PORT DATA BITS	8
COMM PORT PARITY	None
COMM PORT STOP BITS	1
COMM PORT FLOW CONTROL	None
SAVE CHANGES	YES

- At **YES** prompt following 'SAVE CHANGES' press **ENTER**. SEAR II display should show 'Saving Config.' and connection with Hyper Terminal should now be possible.

## SEAR II - Step 2 - Uploading Application (LLW, LLB, CDL)

### Uploading the Ladder Logic to the SEAR II

- On the SEAR II terminal interface Main menu display, select **D) Application**. The following Application menu will appear.



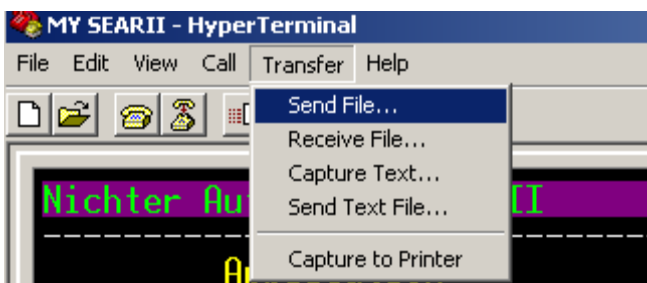
- Select **A) Download file to SEAR**.
- Use the arrow keys to select LLW, LLB or CDL, then press **ENTER**.

**Note:** Download LLW and LLB first then the CDL last, as it requires a System Setup.

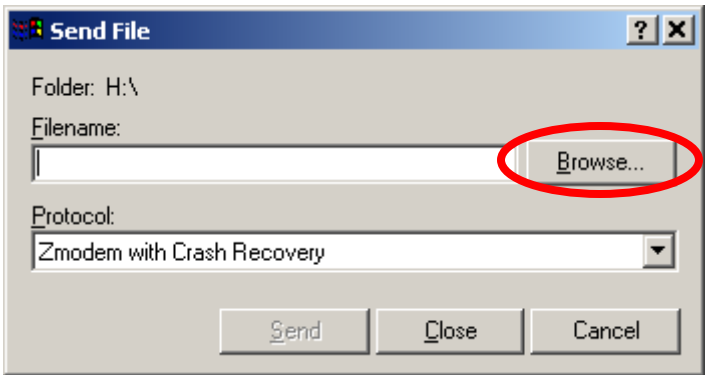
- Press **ENTER** on the SEAR II keypad when prompted. If LLW is selected the following message is displayed: 'Waiting for LLW download'. Proceed to the next step (5).



- On HyperTerminal **Transfer** menu, select **Send File...**

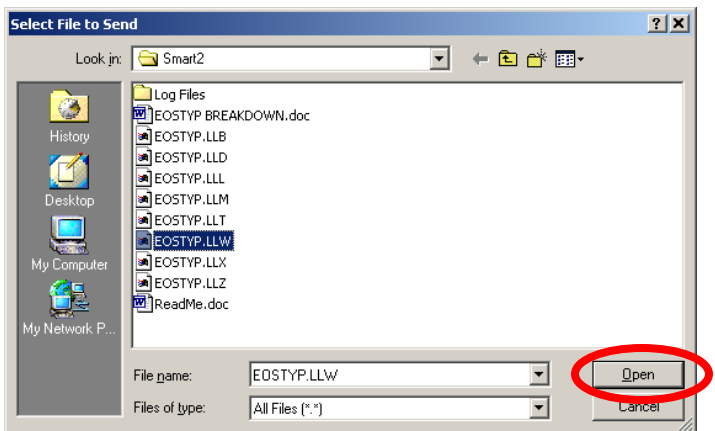


- 6) On **Send File** message box, click the **Browse...** button.

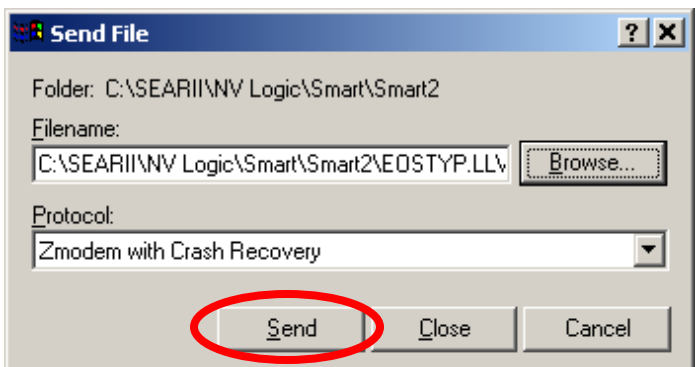


- 7) Select the LLW, LLB or CDL file to be uploaded, then click the **Open** button.

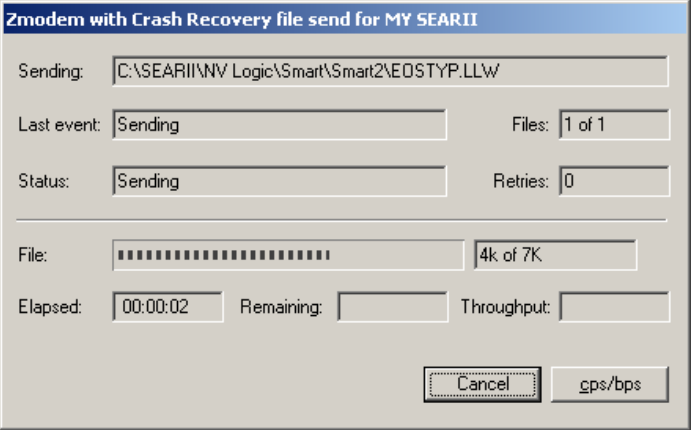
**Note:** The file selection screen does not filter the file extensions by type; therefore, care must be taken so the proper type of file is selected based on the option entered at the prompt (LLW, LLB, or CDL).



- 8) On the **Send File** message box, select the **Zmodem with Crash Recovery** protocol, then click the **Send** button.



- 9) The selected file is transferred to the SEAR II.



10) When transfer is complete, the following message is displayed.

```
Segment to download: LLW
Waiting for LLW download...done.
File Name: EOSTYP.LLW
File Size: 6620
LLW CRC : C249
Updating application block...done.
Download successful.
```

11) Repeat steps 2 to 10 for LLB or CDL.

**Note:** If a CDL file is uploaded to the SEAR II, the next step (Site Setup) needs to be performed to have the unit operational again.

### SEAR II - Step 3 - Site Setup

- 1) On the SEAR II front panel, press the **SITE SETUP** button.
- 2) Verify the following settings per the location plan (press **ENTER** after each is displayed):

Parameter	Value
DATE/TIME	MM-DD-YYYY HH:MM:SS
AUTOMATIC DTS ADJUSTMENT	YES
TIME ZONE?	EASTERN
SITE NAME?	"LOCATION"
MILEPOST	123.45
DOT #?	12345A
TESTER TYPE?	WAYSIDE
DATE FORMAT?	mm-dd-yyyy
TEMP. FORMAT?	Celsius
INDICATE HOLD	0
SITE TYPE?	Collector
SITE (ATCS) ADDRESS	7.103.XXX.XXX.02.01 ( <b>See Plan</b> )
OFFICE (ATCS) ADDRESS	2.103.000.000 ( <b>default</b> )
POLL ID	1
MODE	Gen/ATCS
WAMS XID	DISABLED
OFFICE COMM. DEVICE	MCM (RS232)
MCM (RS232) PORT	AUX
RADIO ATCS ADDR?	7.103.XXX.XXX.01.01 ( <b>See Plan</b> )

FIELD COMM. DEVICE?	None
USER PORT BAUD	57600
USER PORT DATA BITS	8
USER PORT PARITY	None
USER PORT STOP BITS	1
USER PORT FLOW CONTROL	None
AUX PORT BAUD	9600
AUX PORT DATA BITS	8
AUX PORT PARITY	None
AUX PORT STOP BITS	1
AUX PORT FLOW CONTROL	None
COMM PORT BAUD	9600
COMM PORT DATA BITS	8
COMM PORT PARITY	None
COMM PORT STOP BITS	1
COMM PORT FLOW CONTROL	None
<b>Please wait Compiling...Note (On error see next section)</b>	
RESET NAMES/MODULES?	YES
<b>Please wait Compiling...Note (On error see next section)</b>	
EDIT DIGITAL INPUTS?	NO
EDIT BATTERIES?	NO
EDIT RELAYS?	NO
EDIT INDICATOR LEDS?	NO
EDIT TEST LEDS?	NO
GEO_BOX_1 ATCS ADDR?	LEAVE AT THE DEFAULT
GEO_BOX_1 CTL OFFSET?	LEAVE AT THE DEFAULT
GEO_BOX_1 CTL SIZE?	LEAVE AT THE DEFAULT
GEO_BOX_1 IND OFFSET?	LEAVE AT THE DEFAULT
GEO_BOX_1 IND SIZE?	LEAVE AT THE DEFAULT
Note: You will be prompted for the previous 5 lines for each GEO boxes installed	
ULCP SWT OFFSET?	LEAVE AT THE DEFAULT
<b>ULCP LED OFFSET?</b>	<b>LEAVE AT THE DEFAULT</b>
Saving Configuration...	
<b>Please Wait Compiling...Note:(On error see next section)</b>	

The values listed here are for demonstration only. Actual values may vary depending on CDL and location type.

## INSTALL ULCP, WAITING FOR SERVICE MSG

Using a small tool, press the ULCP service button .



**INSTALLED** should appear on the SEAR display.

DISABLE AC POWER, THEN HIT ENTER.

**Note:** For a GEO setup you don't need to disable the AC power, just press ENTER and then press EXIT instead of waiting for 180 seconds.

SETTLING...(for 180 seconds)

BANK\_1 (Hit Enter if correct)

Battery input will indicate 0.0, just press enter

BANK\_2 (Hit Enter if correct)

Battery input will indicate 0.0, just press enter

BANK\_3 (Hit Enter if correct)

Battery input will indicate 0.0, just press enter

TURN AC POWER ON, THEN HIT ENTER.

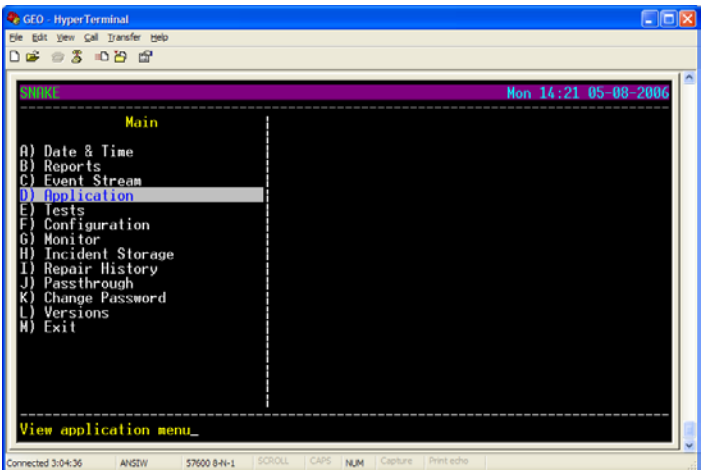
Just press Enter.

NO MONITORED LAMPS

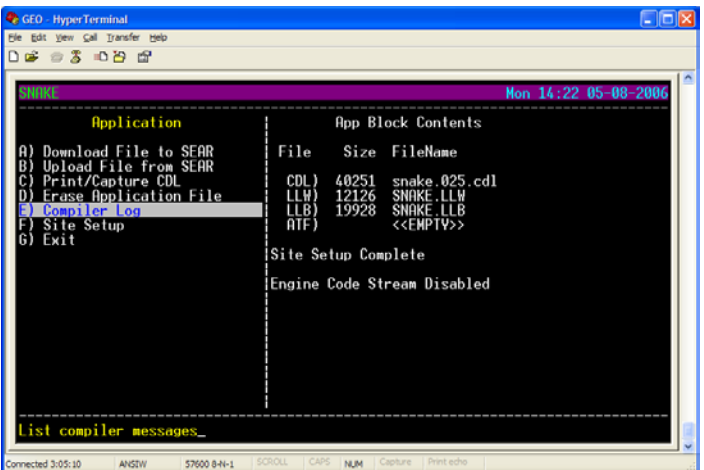
### SEAR II is now ready!

## SEAR II - Compiling Error

- 1) If, while doing a Site Setup the message 'Compiling Error' is displayed, look at the Compiler logs to gather more information on what caused the error. To access the logs select **D) Application** from the Main menu.



- 2) Then select **E) Compiler Log** from the Application menu.



- 3) If the message 'COULD NOT COMPILE - NO FREE RAM' is displayed, the SEAR II should be powered OFF and ON by temporary removing **J1** (Power/Echelon) connector to clear the RAM. The Site Setup should be attempted again.

Compiler Log - compiled from Site Setup

Compile time: Mon 05-08-2006 08:35:32

Compiling Site Setup

Compiled Section(s) Successfully!

Compiling Definitions

Compiled Section(s) Successfully!

COULD NOT COMPILE - NO FREE RAM

Hit any key to continue

**Note:** The following message will confirm that compiling was successful.

Compiler Log - compiled from start-up

Compile time: Mon 05-08-2006 12:46:56

Compiling Site Setup

Compiling Definitions

Compiling Logic

Compiled Section(s) Successfully!

Hit any key to continue

## SEAR II – Loading Executive

- 1) To load new executive software into the SEAR unit, connect using HyperTerminal (see SEAR II – HyperTerminal Setup)
- 2) Restart the SEAR and get ready to select 1 while the SEAR is booting:

```
WAG - HyperTerminal
File Edit View Call Transfer Help
F) Configuration
G) Monitor
H) Incident Storage
I) Repair History
J) Passthrough
K) Change Password
L) Versions
M) System
N) Exit
Hit any key to continue
Boot Monitor Version 9V642-A01.C
SEAR II Booting...rsion number
Testing data bus...passed.
Testing address bus...passed.
Checking the executive CRC...valid (076FCD9E)
Boot Options (Valid Executive)
1. Download Executive
2. Run Debugger
3. Run Executive
Choice > _
Connected 0:16:16 ANSI 57600 8-N-1 SERIAL CAPS NUM Clipboard Print extra
```

- 3) Follow the on-screen directions – from the HyperTerminal **Transfer** menu select **Send File** and then restart the SEAR once the transfer is complete.
- 4) Always re-run site setup after loading a new executive. Ensure 'Indicate Refresh' is set to 60 seconds under site setup.