Basic setup of a Micromate® for Auto Call Home™

Question:

How do I set up a Micromate to run the Auto Call Home function?

Answer:

The Auto Call Home function requires that the Micromate, modem, and PC are configured before it will transfer data. Please refer to the Micromate User Manual 721U0201 section 11.4.4 and the Blastware™ User Manual 714U0201 section 4.4 for a complete description and extended instructions.

**NOTE:** It is suggested that you configure the Micromate, modem, and PC in the office before deploying in the field.

Configuring the Micromate for Auto Call Home

1. Touch the Auto Call Home short cut icon on the Micromate touch screen. This Auto Call Home menu configures how the Micromate calls your destination computer, assuming this function has been enabled.

   **NOTE:** The Auto Call Home function does not support manually recorded events.

2. Enable Auto Call Home. Set Session Time Out to 30 minutes, modem to Generic, and baud rate to 115200.

   ![Auto Call Home Menu](image)

   **NOTE:** Session Time Out is used to exit Auto Call Home and return to monitor mode after the given time. Use this feature to set the maximum amount of time the Micromate will NOT be in monitor mode.

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3 Use ONLY a Sabrent CB-FTDI USB to Serial Cable to connect the Micromate to the modem.

To Configure the Modem

The Micromate supports the following three modems: Raven X, LS-300 and GX-400. The following example is for the GX-400 modem, using the AirLink Ace Manager software to configure the modem.
When setting the TCP idle time-out value, Instantel strongly recommends one of the following values based on your expected usage.

- If you do not remotely configure the Compliance Setup and Schedule of the monitoring unit, then we recommend using 65 seconds to allow for TCP idle time that occurs when an Auto Call Home session executes a Delete All on the unit.

- If you remotely configure the Compliance Setup or Schedule of the monitoring unit, then we recommend using 10 minutes to allow for the TCP idle time that occurs between the time the Compliance Setup window is opened in Blastware and the time the new configuration is sent to the unit.
To Configure the PC for Auto Call Home

4 Start the most recent release of Blastware. (See the software section of http://instantel.com/downloads/default.aspx.)

5 Connect the Micromate unit to the PC. Check the Micromate check box in the bottom left corner of the Blastware screen.

6 Select Remote Access/Auto Call Home/Setup Unit. Click the Radio Modem button, then select if the unit is to call home after each event and/or if the unit is to call home while monitoring.

7 Click Send to send this setup to the unit.

8 Set up the PC by selecting Remote Access/Auto Call Home/Setup PC. Enter the serial number and description for your Micromate. (In the example below, Serial No. UM6004 and UM6004 ACH Setup.)
9 Click the **Edit** button to configure the operations that are to be done for this unit.

10 Start Auto Call Home by selecting **Remote Access/Auto Call Home/Start** in Blastware.

**NOTE:** The IP address and port number must match the address and port number set in the modem. Please see the Blastware manual for more information.

11 Do one of the following:

- If this is the first time Auto Call Home is being set up, configure communications and reports. Proceed to Step 9.
- If you have already configured communications and reports, proceed to Step 14.

12 Click the **Disconnect** button at the bottom of the window.

13 Set up Communications. First, select the type of communication you wish to use, **Serial** or Ethernet (**UDP** or **TCP**). Then use the **Settings/Communications** menu to complete the setup. For Serial communication, select the baud rate and COM port that the unit will be connected to. For Ethernet, enter the IP address and Port.

**NOTE:** The IP address and port number must match the address and port number set in the modem. See the Blastware manual for more information.
14 Configure report options by selecting **Settings/Reports**. The minimum requirement is to specify where the database will be created. (In the example below, c:\Blastware 10\BWMAIL.) If you want to generate other file types, select the file type and specify the directory where the files will be stored.

**NOTE:** All reports are post processed using this application. Measurement units selected in this report setup override the Seismograph’s settings.

![Image of report setup interface](image)

15 Click OK.

16 In the Auto Call Home dialog box, click the Connect button at the bottom of the window.

17 To put the Micromate in monitor mode, press the Start Monitor button on the unit or click Blastware/Unit/Monitor. To make sure Auto Call Home is running, click Remote Access Menu/Auto Call Home/Start and click the Connect button.

**NOTE:** Once Auto Call Home has connected, to access the Micromate or make any changes to the settings, you must first disconnect Auto Call Home.
18 To test the setup, with the Micromate in monitoring mode, create an event by shaking the geophone. Make sure the unit displays “Connecting” and “Transferring Data”. Also make sure that Auto Call Home receives the file.

Additional Options

To Schedule Monitoring

The Micromate can be configured to start or stop monitoring, or to call home at specific times during the day or week. This daily or weekly schedule can also repeat. For more information, please refer to the Micromate user manual.