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 or USB to PC, and baud rate to 115200.

   **For Modem connected Unit**

<table>
<thead>
<tr>
<th>Auto Call Home</th>
<th>Enable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Time Out</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Modem</td>
<td>Generic</td>
</tr>
<tr>
<td>Modem Baud Rate</td>
<td>115200</td>
</tr>
</tbody>
</table>

   **For Serial Port Connected Unit**

<table>
<thead>
<tr>
<th>Auto Call Home</th>
<th>Enable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Time Out</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Modem</td>
<td>USB to PC</td>
</tr>
<tr>
<td>Modem Baud Rate</td>
<td>115200</td>
</tr>
</tbody>
</table>

   **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.
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 THOR. (See the software section of http://www.instantel.com/system/files/thor_web_installer.zip)

5 Connect the Micromate unit to the PC. Confirm that the Micromate can communicate with THOR. Connection Status should indicate Connected in THOR.

NOTE: See THOR Operator manual for details on how to Add and connect to a unit in THOR

6 In the Unit Details area in THOR, under the Unit tab, click the Auto Call Home Setup 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 **Apply** to send this setup to the unit.

Manage Units

8 Set up Auto Call Home Filters. In the **Filter** section under the **Auto Call Home** tab, click the **Add** button. Enter the serial number and description for your Micromate. (In the example below, Serial No. **UM10169** and **UM10169 ACH Setup**). Please see the THOR Operator Manual for detailed description of Auto Call Home Filters.
Click the applicable **Check box** to configure the operations that are to be done for this unit.

<table>
<thead>
<tr>
<th>Filter Rule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>^</td>
<td>Default Auto Call Home filter cor</td>
</tr>
<tr>
<td>UM10169</td>
<td>UM10169 ACH Setup</td>
</tr>
</tbody>
</table>

**Action details**

- Filter: UM10169
- Description: UM10169 ACH Setup
- Copy Events: ✓
- Copy Monitor Log: ✓
- Delete Events and Logs from Unit: ✓
- Set Date/Time: ✓
- Send Events to InstaTel Vision: ✓

9. Set up **Communication Settings** under the THOR **Auto Call Home** tab. If you are using TCP communications for auto call home then enter the **TCP Port** number so THOR knows where to listen for incoming communication/data from your modem. For Serial and USB communication, the Micromate unit will show up under the **Active COM Ports** (Not applicable for TCP protocol) which indicates THOR will accept incoming data from the Micromate unit.

**NOTE:** For TCP communication, it may be required for IT to setup port forwarding so that data from the Monitoring unit is routed to the TCP Port where THOR is listening on (12345 in the above example)
10 Configure report options by selecting the applicable check box, then click **Apply** to save. Enabling “Generate Reports for Events Downloaded Using Auto Call Home” creates CSV, PDF, TXT, XML file formats as part of the auto call home process and is saved to the THOR project directory where the unit is added. No way to choose the file formats.

![Report Options](image)

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

11 Start Auto Call Home by clicking **Start** button in THOR, under the Auto Call Home tab.

![Auto Call Home](image)

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

12 To put the Micromate in monitor mode, press the Start Monitor button on the unit or click the **Monitor Mode** under unit details in THOR. To make sure Auto Call Home is running, check the bottom right corner of the THOR software, it should indicate “**Auto Call Home Running**”. If Auto Call Home is not running, see Step 11 above.
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 time during the day or week. This daily or weekly schedule can also repeat. For more information, please refer to the Micromate user manual.