

ATL6410- “2047 Pattern Test”

These are procedures/processes that you should run before you run the 2047 Pattern Test!

FIRST.....

- A. Make sure that your phone company tells you that your lines have tested “GOOD”!
- B. Check to make sure that you still have power to the Host site and Remote site equipment.
- C. Then make sure that no one has accidentally disconnected your equipment connections.
- D. Then make sure that you re-initialize your ATL6410's and your remote site Digiboard. You may perform this procedure on those devices in the following order.

FROM THE REMOTE SITE...

- 1. Turn the power off to all of your remote site concentrators (the site that is down ONLY!)
- 2. Turn the power off to your ATL6410
- 3. You have now completed the Remote Site procedures. Please wait for further instructions.

AT YOUR HOST SITE.....

- 1. Make sure you are working on the proper site equipment!
- 2. On your ATL6410, please turn the power OFF then back on.
- 3. You have now completed the Host Site procedures. Please wait for further instructions.

FROM THE REMOTE SITE..

- 1. Turn the power ON to the remote sites ATL6410.
- 2. Now turn the power back on to the PRIMARY Digi C-Co concentrator ONLY!

If these procedures do not successfully relink your equipment, continue to the next step.

Looking at your remote stores Digi CX/C-Con concentrator, you will notice that you have two arrows on the front configuration menu. **Generally** the ABCS default setting for a remote concentrator is Node 1 (which will read “1N” on the LED readout).

NOTE: If you have more than one concentrator, turn all but the primary Concentrator “OFF”. The primary concentrator is the concentrator that is directly attached to The ATL. . This will prevent further damage due to defective equipment.

NOW...

Making sure that the concentrator's power is turned on, place the Digi Concentrator in front of you with the LED readout facing you. Next..

- 1. Press the right arrow, (**generally** one time) until you read a “1N”.
- 2. Now push the left arrow until you read a “1N”, again.
- 3. Then press the right arrow, again, until you read “PN”.
- 4. Finally, turn the power to the concentrator off and on.

Hopefully you see an "AC" on your Concentrator, and a "COMM" on your ATL. If you are *successful*, turn on the all of your other concentrators. If you are successful you should shortly see an "AC" on all of those devices as well.

If you receive NO favorable results, proceed with the communication 2047 Pattern test on the ATL's.

NOTE: If you have no reading on your Digi C-Con, you have a problem!

NOTE: PLEASE REMEMBER! DO NOT ASSUME THAT A "COMM" READING ON YOUR ATL'S LED READOUT MEANS EVERYTHING IS GREAT! YOUR LINE, (though it may be reading "COMM"), MAY HAVE TOO MUCH LINE NOISE TO ALLOW DATA TRANSMISSION!

This is the typical equipment that is utilized between Host/remote locations utilizing ATL6410 devices

*Equipment: 2 ATL 6410 Units connected by 56K/64K line.
Remote Site- 1 Working CX Concentrator (s)
Remote and Host Site- 1 Working Telephone Line*

STARTING from the **REMOTE SITE!**
(Below I have pictured an ATL 6410 Faceplate Setup Device)



- | | | |
|----|---|---|
| a. | Making sure the power is on you ATL and Digi Equipment. | |
| b. | Hit the Select Key 1 Time | Your LED should read Configuration |
| c. | Hit the ADV Key 1 Time | Your LED should read Normal Mode |
| d. | Hit the ADV Key 1 Time | Your LED should read Diagnostics |
| e. | Hit the Enter Key 1 Time | Your LED should read Self Test |
| f. | Hit the ADV Key 1 Time | Your LED should read Digital Loop |
| g. | Hit the ADV Key 1 Time | Your LED should read Local Loop |
| h. | Hit the ADV Key 1 Time | Your LED should read 2047 Pattern |
| i. | Hit the Enter Key 1 Time | Your LED should read Tx 2047 Er:00 |

Leave this ATL in this test mode. You are now ready to set up the Host site.

Footnotes to the Remote site setup are as follows:

1. Hitting the Enter Key will reset the error counter at the remote site.
2. Hitting the Select Key will take you out of the test into the configuration menu.

From the **HOST SITE**....

(With the ATL configuration faceplate/LED facing you)

- | | | |
|----|---|--|
| a. | Make sure the power is on you to your HOST ATL Equipment. | |
| b. | Hit the Select Key 1 Time | Your LED should read Configuration |
| c. | Hit the ADV Key 1 Time | Your LED should read Normal Mode |
| d. | Hit the ADV Key 1 Time | Your LED should read Diagnostics |
| e. | Hit the Enter Key 1 Time | Your LED should read Self Test |
| f. | Hit the ADV Key 1 Time | Your LED should read Digital Loop |
| g. | Hit the ADV Key 1 Time | Your LED should read Local Loop |
| h. | Hit the ADV Key 1 Time | Your LED should read 2047 Pattern |
| i. | Hit the ADV Key 1 Time | Your LED should read Remote Loop |
| j. | Hit the ADV Key 1 Time | Your LED should read Line Analysis (there may be a pause) |

NOTE: Make sure to record the following “SETTINGS” on your Host site ATL!

Please remember that the **xx.xx's** below represent the numbers being displayed back to you. They do not

Represent the actual information that you should be receiving.

- | | | |
|----|-------------------------------|---|
| k. | .Hit the Enter Key 1 Time | Your LED should read NI Rate Calc:XX |
| l. | Your system should Advance to | Your LED should read NI DDS I/II xx.xx |

Write down the following “Settings”!- You need this reading to be accurate!

- | | | |
|----|------------------------|---|
| m. | Hit the ADV Key 1 Time | Your LED should read Sig: -xx.xx dBm |
| n. | Hit the ADV Key 1 Time | Your LED should read Line:OK (or other) |
| o. | Hit the ADV Key 1 Time | Your LED should read Bkg:<<xx.xx dBm |
| p. | Hit the ADV Key 1 Time | Your LED should read Imp:<<xx.xx dBm |
| q. | Hit the ADV Key 1 Time | Your LED should read Vs: ZSDFCIE |
| r. | Hit the ADV Key 1 Time | Your LED should read Loop Status |

NOTE: IF YOU RECEIVE A “SIG: xx.xx dBM” of –34 and above you Have an immediate line noise/degradation problem.

If you have properly recorded the information that lines K-R have supplied to you, then you have completed the testing of the TX transmission from the Remote site to the Host site. Now we will need to do the reverse setup to test the RX transmission of the Host Site to the Remote site.

AT THIS POINT ...YOU HAVE ONLY COMPLETED ONE SIDE/PORION OF THE TEST!

Here is the setup for the RX Transmission Test. This is the typical equipment that is utilized between Host/remote locations utilizing ATL6410 devices

Equipment: 2 ATL 6410 Units connected by 56K/64K line.
Remote Site- 1 Working CX Concentrator (s)
Remote and Host Site- 1 Working Telephone Line

To start the Host to Remote RX diagnostic test, let us begin at the **HOST SITE!**

- a. Make sure the power is on you ATL Equipment.
- b. Hit the Select Key 1 Time Your LED should read **Configuration**
- c. Hit the ADV Key 1 Time Your LED should read **Normal Mode**
- d. Hit the ADV Key 1 Time Your LED should read **Diagnostics**
- e. Hit the Enter Key 1 Time Your LED should read **Self Test**
- f. Hit the ADV Key 1 Time Your LED should read **Digital Loop**
- g. Hit the ADV Key 1 Time Your LED should read **Local Loop**
- h. Hit the ADV Key 1 Time Your LED should read **2047 Pattern**
- i. Hit the Enter Key 1 Time Your LED should read **TX 2047 Er:00**

You have now setup the Host site for the 2047 Pattern Test. Leave the ATL in this mode. You are Now ready to set up the remote site.

Footnotes to the Host site setup are as follows:

- 3. Hitting the Enter Key will reset the error counter at the remote site.
- 4. Hitting the Select Key will take you out of the test into the configuration menu.

From the **REMOTE SITE**

(With the ATL configuration faceplate/LED facing you)

- m. Make sure the power is on you to your HOST ATL Equipment.
- n. Hit the Select Key 1 Time Your LED should read **Configuration**
- o. Hit the ADV Key 1 Time Your LED should read **Normal Mode**
- p. Hit the ADV Key 1 Time Your LED should read **Diagnostics**
- q. Hit the Enter Key 1 Time Your LED should read **Self Test**
- r. Hit the ADV Key 1 Time Your LED should read **Digital Loop**
- s. Hit the ADV Key 1 Time Your LED should read **Local Loop**
- t. Hit the ADV Key 1 Time Your LED should read **2047 Pattern**
- u. Hit the ADV Key 1 Time Your LED should read **Remote Loop**
- v. Hit the ADV Key 1 Time Your LED should read **Line Analysis** (there may be a pause)

NOTE: Make sure to record the following "SETTINGS" on your Host site ATL!

Please remember that the **xx.xx's** represented the numbers being displayed back to you. They do not

Represent the actual information that you should be receiving.

- w. Hit the Enter Key 1 Time Your LED should read **NI Rate Calc:XX**
- x. Your system should Advance to Your LED should read **NI DDS I/II xx.xx**

The next reference: LINE: is a very important reference- You need this reading to be accurate!

- m. Hit the ADV Key 1 Time Your LED should read **Sig: -xx.xx dBm**
- n. Hit the ADV Key 1 Time Your LED should read **Line:OK (or other)**
- o. Hit the ADV Key 1 Time Your LED should read **Bkg:<<xx.xx dBm**

- | | | | |
|----|------------------------|----------------------|-----------------|
| p. | Hit the ADV Key 1 Time | Your LED should read | Imp:<<xx.xx dBm |
| q. | Hit the ADV Key 1 Time | Your LED should read | Vs: ZSDFCIE |
| r. | Hit the ADV Key 1 Time | Your LED should read | Loop Status |

**NOTE: IF YOU RECEIVE A “SIG: xx.xx dBm” of –34 and above you
Have an immediate line noise/degradation problem.**

We now will need to keep a permanent record of these settings..
Grn 01/24/02