Meridian 1

Meridian Companion

Portable Telephone Registration Instructions

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C3050 registration instructions using the Administration Terminal

To operate the Companion C3050 portable, refer to *Companion C3050 Portable Telephone User Guide.*

Registration of C3050 portables on a Meridian Companion system involves using either the Administration Terminal or Companion Manager along with the portable. For more information about the Administration Terminal, refer to *Meridian Companion Administration Terminal Operations Guide*. For more information about registering portables and performing related tasks using Companion Manager, refer to *Companion Manager Installation and Operations Guide*.

Setting the C3050 default values

Setting default values ensures that all the portables in your coverage area have the same initial setting before you register them. To customize the features in your portables after registration, refer to *Companion C3050 Portable Telephone User Guide*.

ATTENTION!

This procedure erases all registration information and the custom features from the portable memory.

1. Open the portable's flap.
2. Press . The display shows MENU .
3. Press ▽ or △ until the display shows Security : Off .
4. Press ON .

   If the display shows Enter PIN , go to Step 5.

   If the display shows Define PIN first , the previous owner of the portable did not define a Personal Identification Number (PIN) for the security lock feature.

   a. Press PIN . The display shows Enter new PIN .

   b. Enter any six-digit number. The display shows * for each number entered.

   c. Press Done . The display shows Enter it again .

   d. Enter the same six-digit number from step b. The display shows * for each number entered.

   e. Press Done . The display shows Saved .

   f. Close the portable's flap and repeat the procedure from step 1.
5. Enter the eight-digit master PIN.

   Note: The master PIN may be on a sticker located on the back of the portable.
6. Press DONE . The display shows Clear everything .
7. Press YES . The display shows No system selected .

Registering the C3050 portable

Registering C3050 portables to a wireless telephone system involves using the Administration Terminal and the C3050 portable.

To register portable telephones, you must first turn on administration programming for the entire system using either the Administration Terminal or Companion Manager.

There are two versions of the C3050 portables, C3050 and C3050 REV2. Identify the portables by a label under the battery pack marked C3050 and C3050 REV2. You can register the C3050 portable telephone on up to nine different systems. You can register the C3050 REV2 portable telephone on up to six different systems.

Note: Portables cannot be registered when out of radio range of the system.

Enabling the system for registration

1. On the Administration Terminal, press Feature * * 9 . The display shows `Password:` .
2. Enter the Administration password (default password is 9 9 9 9). The display shows `1. Registration` .
3. Press ↓ until the display shows `Mstr Reg Enbl:` .
4. Press CHANGE until the display shows `Mstr Reg Enbl: Y` .

Locking registration on (optional)

`Mstr Reg Enbl` automatically returns to `N` 30 minutes after the last registration. It is recommended that you allow Registration to time out in most circumstances. Leaving Registration enabled can interfere with registration in neighboring systems. However, if you are registering a large number of portables and do not want registration to time out, you can lock it on.

1. On the Administration Terminal, press Feature * * 9 . The display shows `Password:` .
2. Enter the Administration password (default password is 9 9 9 9). The display shows `1. Registration` .
3. Press ↓ until the display shows `Mstr Reg Enbl:` .
4. If required, press CHANGE until the display shows `Mstr Reg Enbl: Y` .
5. Press → until the display shows `Reg Locked: N, Y`
6. Press CHANGE until the display shows `Reg Locked: Y`.

Registering the C3050

1. Open the portable's flap. The display shows the current system name or `No system selected` for 2 seconds.

2. Press System . The display shows `WIRELESS SYSTEMS` .

   Note: Your portable can be registered to six or nine different systems. If all six or nine system name locations are used, you must deregister a system name. See "Deregistering the C3050" on page 6.

3. Press ADD to establish a radio link. The display briefly shows `Adding SYSTEM` and the next system number. ADD is not displayed if all the system names are used.

   If a radio link is established, the display shows `Pswd:` .

   If a radio link is not established, the display shows `No connection` . Close the portable's flap and repeat the procedure from step 1.

   Note: If more than 30 minutes have elapsed since the last registration, set `Mstr Reg Enbl:` to `Y` again.

4. Enter the registration password. The default is 7PQRS 2ABC 3DEF 4GHI 6MNO (RADIO). The display shows `WTN:` .

   If the registration password is not correct, the display shows `Invld Pswd` . Close the portable's flap and repeat the procedure from step 1.

5. Enter the four-digit wireless terminal number (WTN). The display shows `Enter name` .

   If the WTN is incorrect, the display shows `Invld WTN` . If the registration fails, the display shows `Reg failed` .

   If you attempt to register the C3050 to the same system twice, the display shows the registered name, for example `Registered as NORTEL 1` .

6. Enter the system name (up to 16 characters), for example `NORTEL 1.` Keep pressing the button that has the letter you want *until* the letter appears on the display. For example, press 5JKL three times to display the letter L.

- Press SPACE to add a blank space to the name.
- Press BKSP to delete the previous character.
- Press ◁ or ▷ if the next letter is on the same button.

7. Press SAVE . The display shows the registered name, for example NORTEL 1 registered .

Ending Administration programming

After registering all the portables, turn off Administration programming on the Administration Terminal.

1. Press CHANGE until the terminal display shows Mstr Reg Enbl: N .
2. Press RIs . The terminal display shows End of session .

Note: Administration programming turns off 30 minutes after the last successful registration unless you lock it on.

Confirming that the C3050 is registered

1. Close, then open the portable's flap.

   If the display shows the system name that you just registered, proceed to step 5.

   If the display shows a different system name or No system selected , proceed to step 2.

2. Press System . The display shows WIRELESS SYSTEMS .
3. Press ▽ or △ until the display shows the system name you registered.
4. Press SELCT .
5. Press Line . You hear dial tone, and the display shows .

   If you do not hear dial tone, check that you have selected the correct system and try to register the portable again.

6. Close the portable's flap, and set the ringer control switch to .

If the portable is twinned with a desk telephone, make sure the desk telephone is idle and Call Forward is not active.

7. On another working telephone, dial the telephone number of the registered portable. If the portable rings, it is functioning properly.

Note: If you do not hear dial tone, or if the portable does not ring, refer to "Troubleshooting" in *Meridian Companion Installation and Maintenance Guide*. If you continue to experience difficulty registering the portable, contact your distributor.

Deregistering the C3050

You can deregister the C3050 in several ways:

- from the portable
- from the Administration Terminal (refer to *Meridian Companion Administration Terminal Operations Guide*)
- from Companion Manager (refer to *Companion Manager Installation and Operations Guide*)

Deregistering the C3050 from the portable clears registration information stored in the portable and the system. For example, you may want to deregister the portable before you assign it to another WTN on the same system.

Deregistering the C3050 from the Administration Terminal or from Companion Manager does not clear registration data from the portable. (You could use this method if the portable were lost or stolen or if you wanted to assign it to another system.)

If a portable is registered on other systems, it will still be available on those systems. You deregister one system at a time.

Note: If you are out of range of the system, this procedure clears registration data only from the portable.

1. Open the portable's flap.
2. Press System . The display shows WIRELESS SYSTEMS .
3. Press ▽ or △ to display the system name that you want to deregister.
4. Press ERASE . The display shows Erase item? .

5. Press OK . The display shows Deregistering... and then Item erased. No system selected .

Displaying the C3050's wireless terminal number

When you register a portable, you assign it a WTN. If you register several portables and forget which portable has which WTN, this procedure displays the WTN.

1. Open the portable's flap.
2. Press . The display shows MENU .
3. Press ▽ or △ until the display shows Feature request .
4. Press SELCT . The display shows A- .
5. Press * 0 . The display shows the WTN for 3 seconds.

Measuring RSSI

The Receive Signal Strength Indicator (RSSI) is a measurement of the signal strength the Base Station receives from the portable. The Base Station controls the power transmitting mode of the portable. When the Base Station receives a weak signal, it instructs the portable to transmit in high-power. When the Base Station receives a strong signal, it instructs the portable to transmit in low-power. The strongest RSSI value the display shows is -35 dBm. The weakest RSSI value the display shows is approximately -94 to -100 dBm.

Measuring undirected RSSI

You can measure the signal strength between a portable and a system-selected Base Station using undirected RSSI.

1. Open the portable's flap.
2. Press . The display shows MENU.
3. Press ▽ or △ until the display shows Feature request .
4. Press SELCT . The display shows A- .
5. Press * 8TUV 9WXYZ 8TUV . The display shows the cell number, the radio ID of the Base Station to which the portable is linked, the power

mode (high or low), followed by the signal strength and the channel. For example, 8 15112 H 67 29.

You can also press to view the information in “standard” display mode. This mode displays the radio ID of the Base Station to which the portable is linked, followed by the signal strength and power mode. For example, 15112 – 67 H. You can revert back to the initial display mode by pressing .

Hand-off occurs normally between the cells.

Note: In this example, the cell is 8, the card is 15, the port is 11, the radio is 2, and the channel is 29. The signal strength measured by the Base Station is –67 dBm, and the H indicates the portable is transmitting in high-power mode (an L indicates low-power mode).

6. To end the connection, press ☎ or close the flap.

Measuring directed RSSI

You may want to measure the RSSI between a portable and a specific Base Station radio. For example, you may suspect that one of the two radios in a Base Station is not working properly. You can also use directed RSSI to prevent hand-off while you find a cell edge. To measure the RSSI of a specific radio, you must be in range of two Base Stations—the one you want to measure and another Base Station.

Note: You cannot measure the directed RSSI of both radios in the Base Station at the same time.

Before you measure directed RSSI, use *Meridian Companion Programming and Provisioning Record* to find and note the following:

- The five-digit ID of the Base Station radio you want to measure, by mapping the Base Station location to the TCM port. The first four digits indicate the TCM port to which the Base Station is connected. The last digit indicates the number of the radio on the Base Station. For example, the number 03142 on the Base Station is connected to TCM port 0314, and 2 is the radio number. The five-digit number might be printed on a label attached to the Base Station mounting bracket.
- The radio IDs of all other Base Stations in the same location.

1. Follow steps 1 to 5 of “Measuring undirected RSSI” on page 7.

   If the display shows the ID of a Base Station neighboring the one you want to measure, proceed to step 2.

   If the display shows the ID of the Base Station you want to measure, move out of the cell boundary range so that hand-off occurs and then continue with step 2.

2. Press . The display shows MENU.

3. Press ▽ or △ until the display shows Feature request .

4. Press SELCT . The display shows A- .

5. Press * 8TUV 9WXYZ 9WXYZ .

6. Enter the five-digit ID code for the Base Station radio you want to measure. The display shows the cell number, the radio ID of the Base Station to which the portable is linked, the power mode (high or low), followed by the signal strength and the channel. For example, 8 15112 H 67 29.

   You can also press to view the information in “standard” display mode. This mode displays the radio ID of the Base Station to which the portable is linked, followed by the signal strength and power mode. For example, 15112 – 67 H . You can revert back to the initial display mode by pressing .

   Hand-off does not occur as you move between the cell boundaries. The link drops when you move out of range.

   Note: In this example, the cell is 8, the card is 15, the port is 11, the radio is 2, and the channel is 29. The signal strength measured by the Base Station is –67 dBm, and the H indicates the portable is transmitting in high-power mode (an L indicates low-power mode).

7. To end the connection, press ☎ or close the flap.

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