C2C Power-Loss Alarm

This document provides guidelines for enabling a C2C™ or another BANDIT chassis to send an alarm when the chassis loses power.

Note: The power-loss alarm has already been configured. It is a pre-defined SNMP trap for the BANDIT device. We are enabling SNMP so that the alarm can be sent.

To allow the SNMP trap to be sent to an SNMP Manager, you need to configure the BANDIT device's use of SNMP. SNMP configuration enables the BANDIT device to send a message generated by the trap.

See the following:

- *Configuring SNMP Use in a BANDIT Device*, on page 1
- *Enabling Configured Alarms*, on page 5

For details of C2C configuration, see the *C2C Configuration Guide*.

4.1 Configuring SNMP Use in a BANDIT Device

The C2C can send a power-loss alarm to an SNMP manager. To enable this feature, do the following:

1 On the MAIN menu, select **System Administration**.

```
Main Menu
----------
1) QuickStart Config Builder

2) Typical Configurations
3) Advanced Configurations
4) Tools

V) View Current Unit Status
F) Cellular Fast Connect
L) Load Factory Defaults
P) Load Plug and Play Defaults
W) Write Configuration
R) Reset Unit
X) eXit Session
S) Statistics
Y) sYstem Administration

Enter Choice :
```

❖ The System Administration Menu is displayed.

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```
System Administration
---------------------
1) User Management
2) SNMP Configuration
3) Database Management
4) Telnet Terminal
5) Port Data Capture
6) SNMP Triggered TRAPs
7) RADIUS Authentication

B) Config Banner
C) Copy Configuration
F) Flash RDU
N) Network Download
R) Remote Logging
U) Upgrade Code
V) VPN Commands
O) Ospf/Bgp Log
W) Wireless Options

Enter Choice :
```

2 On the System Administration Menu, select **SNMP Configuration**.

❖ The SNMP Configuration Menu is displayed.

```
1)  SNMP Get Community String : ******
2)  SNMP Set Community String : ******
3)  SNMP Trap Default Addr : 192.168.10.2
4)  SNMP Trap Table
5)  SNMP Trap Ping Mode:normal
6)  SNMP Trap Ping Time:NA

Enter Choice: 5
```

Note: This menu sets passwords (a Get Community string and a Set Community string) for SNMP management. This menu also sets the default SNMP Manager device's trap address and lets you configure addresses (in the SNMP Trap Table) for additional SNMP Managers. (The BANDIT products can support several SNMP Managers.)

Ask your network administrator for the Get and Set Community strings.

! **Caution:** Make sure you change the Get and Set strings from their defaults, so that you can control which SNMP Managers have access to the BANDIT device. Consult your network administrator for the new SNMP Get and Set strings.

Note: Make sure the same Get and Set strings (passwords) are set in the SNMP Manager application on your management terminal or workstation.

3 To configure the SNMP Get Community String, do all of the following:

a On the SNMP Configuration menu, select **SNMP Get Community String**.

❖ The following prompt is displayed:

```
Define SNMP Get Community String:
```

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b Type the Get community string, and press the **Enter** key.

Note: The SNMP Get Community String provides access for monitoring the device's state. An SNMP Manager that knows the Get string can view (read) the device's configuration.

4 To configure the SNMP Set Community String, do all of the following:

a On the SNMP Configuration menu, select **SNMP Set Community String**.

❖ The following prompt is displayed:

```
Define SNMP Set Community String:
```

b Type the Set community string, and press the **Enter** key.

Note: The SNMP Set Community String provides access for managing the device's state. An SNMP Manager that knows the Set string can modify and save (write) the device's configuration.

5 The default SNMP trap address is the IP address of the principal management terminal or workstation (such as a PC or a Sun) for this BANDIT device. (That management platform can use an SNMP Manager of your choice.) Do all of the following:

a On the SNMP Configuration menu, select **SNMP Trap Default Address**.

❖ The following prompt is displayed:

```
Enter SNMP Trap Default Address (N.N.N.N):
```

b Enter the IP address of the principal management terminal, and press **Enter**.

6 An SNMP Agent may send its information to one or more SNMP Managers. The SNMP trap table lists the IP addresses of additional PCs to which this SNMP Agent will send information. If the power-loss alarm will be sent to more than one management terminal, do the following to configure the SNMP trap table:

a On the SNMP Configuration menu, select **SNMP Trap Table**.

❖ The following prompt is displayed:

```
Enter Trap Address (N.N.N.N):
```

b Type the IP address of a management PC, and press **Enter**.

❖ A prompt is displayed for the next entry in the table.

```
Enter Trap Address (N.N.N.N):
```

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c You can continue entering addresses (repeating Step 6b), or you can press **Escape** to return to the SNMP menu.

Note: Each management console (PC) listed in the trap table can run its SNMP Manager software independently. These separate instances of an SNMP Manager, on separate PCs, may or may not share information.

7 To set the mode in which the BANDIT device sends alarm messages, do the following:

a On the SNMP Configuration Menu, select **SNMP Trap Ping Mode**.

Note: On the SNMP Configuration Menu, the **SNMP Trap Ping Mode** parameter may be followed by its current setting: **normal** or **continuous**.

❖ The SNMP Ping Mode Menu is displayed.

```
1)Normal,
2)Continuous

Enter Choice: 2
```

Note: Sometimes networks can go to sleep; in such as case, an alarm could get lost between the time the alarm is sent and the time the network wakes up. A ping keeps the cellular network alive.

b On the SNMP Ping Mode Menu, select one of the following:

- Select **Continuous** if you want this device to send pings.

❖ Pings will keep the network awake; an alarm will be sent if the chassis senses that power will be lost.

- Select **Normal** if you do not want this device to send pings.

❖ No pings will be sent; the network might remain awake or might sleep. In either case, an alarm will be sent if the chassis senses impending power loss.

Note: On the SNMP Configuration Menu, the **SNMP Trap Ping Time** parameter indicates the following:

- If the **SNMP Trap Ping Mode** is **Continuous**, then **SNMP Trap Ping Time** shows the number of seconds between pings.
- If the **SNMP Trap Ping Mode** is **Normal**, then **SNMP Trap Ping Time** shows **NA** (not applicable).

c If you set the **SNMP Trap Ping Mode** to **Continuous** in substep b, select **SNMP Trap Ping Time** to set the time between pings.

❖ The following prompt is displayed.

```
Enter time in seconds (1, 2, .., 255):
```

d Type the number of seconds between pings, and press the **Enter** key.

❖ The SNMP Configuration Menu is redisplayed.

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8 When you have finished configuring SNMP, press the **Escape** key until you reach the Main Menu.

9 On the Main Menu, select **Write**.

❖ The configuration is saved.

10 Then, on the Main Menu, select **Reset**.

❖ The BANDIT device uses the saved configuration.

4.2 Enabling Configured Alarms

To enable the general alarm settings, perform the following steps.

1 At the Main Menu, press **Ctrl D**.

```
Main Menu
----------
1) QuickStart Config Builder

2) Typical Configurations
3) Advanced Configurations
4) Tools

V) View Current Unit Status
F) Cellular Fast Connect
L) Load Factory Defaults
P) Load Plug and Play Defaults
W) Write Configuration
R) Reset Unit
X) eXit Session
S) Statistics
Y) sYstem Administration

Enter Choice :
```

❖ The Diagnostics Menu is displayed.

```
C2C Telnet
Diagnostics
------------
1) Display Buffer Counts
2) Physical Ports Stats
3) Display Last RESET Information
4) Clear Last RESET Information
5) Reserved Test Switches
6) Alarm : OFF

Y) System Resources
7) OSPF Diag : On
8) BGP Diag : On
9) Parallel Modem SPI Diag

Enter Choice : 6
```

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2 On the Diagnostics Menu, select **Alarm**.

Note: On the Diagnostics Menu, the **Alarm** parameter may be followed by its current setting: **ON** or **OFF**.

❖ The Alarm Settings Menu is displayed.

```
C2C Telnet
ALARM SETTINGS
--------------
1) Master Alarm : OFF
2) NETWORK : OFF
3) MODEM : OFF
4) LAN : OFF
5) PSU 1 : ON

Enter Choice : 5
```

3 On the Alarm Settings Menu, select **PSU 1** (power supply unit 1). (Most BANDIT chassis have only one power supply unit.)

Note: On the Alarm Settings Menu, the **PSU 1** parameter may be followed by its current setting: **ON** or **OFF**.

❖ The Relay Alarm Enable/Disable Menu is displayed.

```
C2C Telnet
Relay Alarm Enable/Disable
--------------------------
1) ON
2) OFF

Enter Choice :
```

4 On the Relay Alarm Enable/Disable Menu, do one of the following:

a Select **ON** to enable the alarm.

b Select **OFF** if the alarm is not needed.

5 Press the **Escape** key until you reach the Main Menu.

6 On the Main Menu, select **Write**.

❖ The configuration is saved.

7 Then, on the Main Menu, select **Reset**.

❖ The BANDIT device uses the saved configuration.