



# Recovering the Cisco ONS 15310, ONS 15327, or ONS 15454 Password

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This document details the procedure for resetting the Cisco ONS 15310, ONS 15327, or ONS 15454 node to the default username and password combination using the password recovery cable.

## System Requirements

- Cisco ONS 15310, ONS 15327, ONS 15454, ONS 15454 M2, or ONS 15454 M6 chassis
- Password Recovery Cable

## Hardware Supported

- ONS 15310 CTX and CTX2500
- ONS 15327 XTC 14 and XTC 28-3
- ONS 15454 TNC, TSC, TCC3, TCC2P, TCC2, TCC+, and TCC



### Note

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The term TCC card is used throughout this document to refer to all models of the TCC cards. The term XTC card is used throughout this document to refer to all models of the XTC cards. The term CTX card is used throughout this document to refer to all models of the CTX cards.

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## Software Compatibility

This procedure applies to the following hardware and software versions:

- CTX—Cisco ONS 15310, Release 5.0 and later releases
- CTX2500—Cisco ONS 15310, Release 7.0 and later releases
- XTC—Cisco ONS 15327, Release 3.3 and later releases
- TCC—Cisco ONS 15454, Release 2.3.3 and later releases



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- TCC+—Cisco ONS 15454, Release 3.3 to 4.1
- TCC2 and TCC2P—Cisco ONS 15454, Release 4.0 and later releases
- TNC, TSC and TCC3—Cisco ONS 15454, Release 9.2 and later releases

## Recovering the Password



### Caution

This procedure should be performed during a maintenance window.

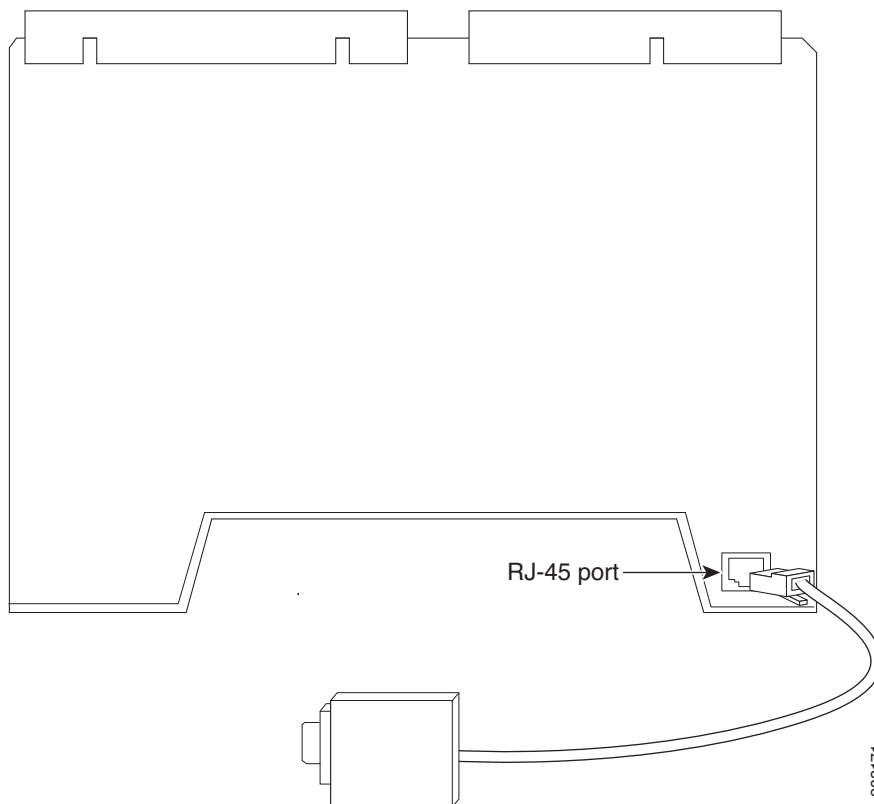


### Note

You must be onsite and have IP connectivity to the node to complete this procedure.

- Step 1** Remove the standby TNC/TSC/TCC/XTC/CTX card from the chassis.
- Step 2** Connect the password recovery cable to the debug pins on the TCC/XTC/CTX card. The TNC, TSC, TNCE, TSCE cards do not use EPC cable and do not have debug pins. You need a USB to DB9 with console cable or a USB and straight-through cable.
- [Figure 1](#) shows the password recovery cable connecting to the TNC or TSC card.

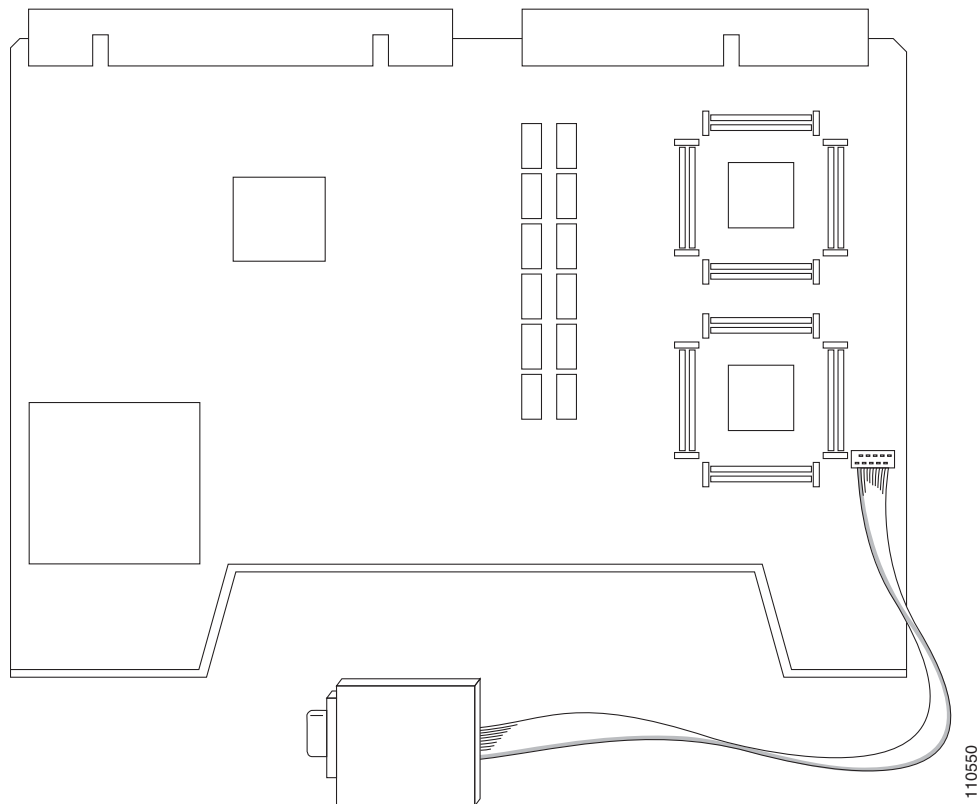
**Figure 1** Password Recovery Cable Connecting to the TNC or TSC Card



The TNC and TSC cards use a straight cable on the RJ-45 serial connection.

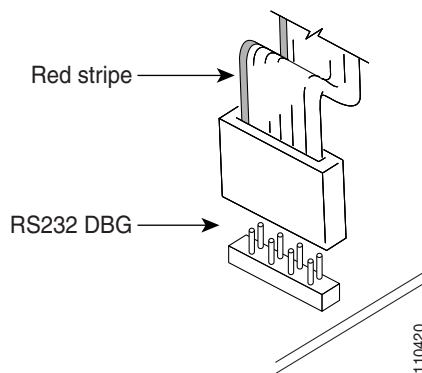
- [Figure 2](#) shows the password recovery cable connecting to the TCC or TCC+ card.

**Figure 2 Password Recovery Cable Connecting to the TCC or TCC+ Card**



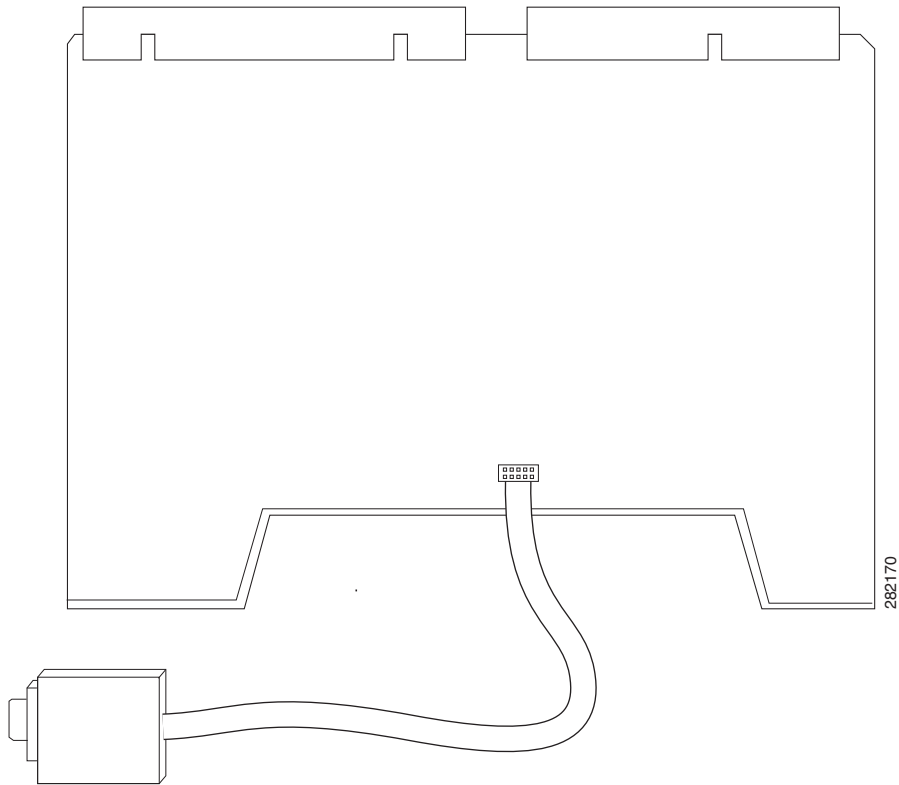
- On the TCC and TCC+ cards, the pins are labeled RS232 DBG. The pins are located near the bottom edge of the card, on the right side, as shown in the [Figure 2](#).
- There are two sets of RS232 DBG pins on the card, use the set closer to the faceplate.
- The red stripe on the password recovery cable should be positioned towards the left.
- [Figure 3](#) shows the connector of the password recovery cable connecting to the RS232 DBG pins.

**Figure 3 Password Recovery Cable Connecting to the RS232 DBG Pins**



- [Figure 4](#) shows the password recovery cable connecting to the TCC2, TCC2P, or TCC3 card.

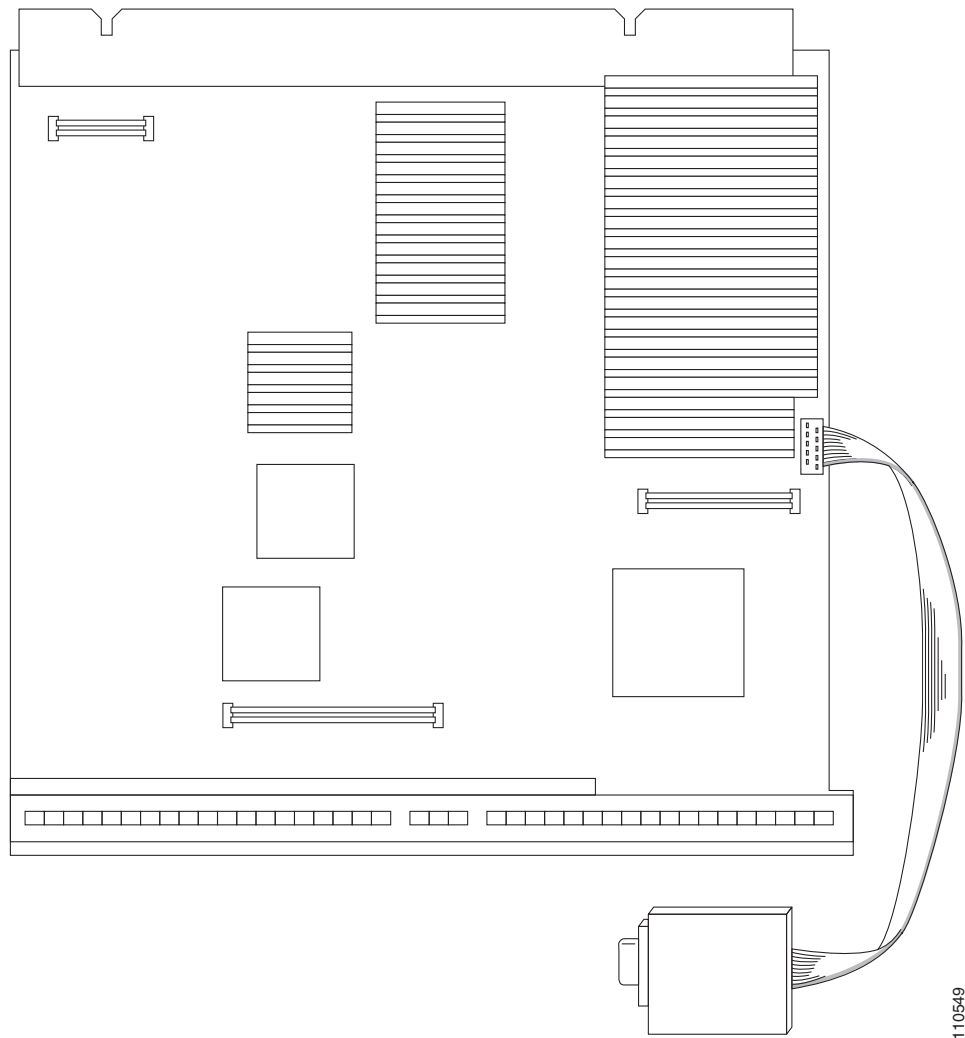
**Figure 4** Password Recovery Cable Connecting to the TCC2, TCC2P, or TCC3 Card



- On the TCC2, TCC2P, and TCC3 cards the pins are located near the bottom edge of the card, towards the middle, as shown in the [Figure 4](#).
- On the TCC2 card, the pins are labeled DEBUG.
- On the TCC2P card, the pins are labeled DBUG.
- On the TCC3 card, the pins are not labeled.
- The red stripe on the password recovery cable should be positioned towards the left.

- [Figure 5](#) shows the password recovery cable connecting to the XTC card.

**Figure 5** Password Recovery Cable Connecting to the XTC Card



- On the XTC card, the pins are labeled as P30 and are located in the middle of the right edge of the card, as shown in the [Figure 5](#).
- The red stripe on the password recovery cable should be positioned towards the faceplate.
- On the CTX card:
  - The pins are labeled J10 and are located at the top edge of the card next to the compact flash.
  - The red stripe on the password recovery cable should be positioned towards the faceplate.

**Step 3** Connect the DB9 connector of the password recovery cable to the serial port on the PC.

**Step 4** Open a communication program, such as HyperTerminal or PCPLUS, and start a session using the following settings:

- Set the session to connect using the communication port for the serial port, for example COM1.
- Bits per second—9600

- Databits—8
- Parity—None
- Flow Control—None

**Step 5** Carefully reinsert the TNC/TSC/TCC/XTC/CTX card with the password recovery cable attached.




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**Note** While reinserting the card, position the password recovery cable such that it passes through the marginal gap between the faceplates of the controller card and the adjacent card.

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**Step 6** The card will boot up and the Power On Self Test (POST) information will scroll across the communications program screen. The text *Press any key to stop auto-boot...* will appear along with a timer. Press any key to interrupt the boot process.

**Step 7** The VxWorks prompt will appear. Enter **W** and press Enter to disable the watchdog timer. The timer limits the session to 90-second.




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**Note** The **W** command is case-sensitive.

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**Step 8** Enter **c** at the boot prompt and press Enter to change a boot parameter. This brings up a list of parameters.

**Step 9** Press Enter repeatedly to scroll through the menu, until you get to the **startup script**.




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**Note** If you scroll past the startup script in the list, continue to scroll through the list till the VxWorks prompt appears. Enter **c** and press Enter again.

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**Step 10** Enter *pwd\_recov* at the startup script and continue to scroll through to the end of the menu choices.

**Step 11** When you arrive at the boot prompt enter **@** and press Enter to continue with the boot cycle. The card will restart the boot cycle and eventually reach the Standby mode.

**Step 12** After the TNC/TSC/TCC/XTC/CTX card with the password recovery cable attached finishes booting up and the ACT/STBY LED is lit, manually pull out the active TNC/TSC/TCC/XTC/CTX card, which does not have the password recovery cable attached. The TNC/TSC/TCC/XTC/CTX card with the password recovery cable attached will now become the active card.

**Step 13** Start a normal CTC session for this node. At the login screen, CTC should now accept the default username and password that the ONS node was shipped with:

- Software Releases 4.6 and later releases reset to a default username of **CISCO15** and the password as **otbu+1**.
- Software Releases 4.1 and earlier releases reset to a default username of **CISCO15** and no password.

**Step 14** You must set up other ONS node usernames and passwords at this stage. CISCO15 has Superuser rights and privileges, which allow you to create a username and assign a password. To create a username and assign a password:

- Click the **Provisioning > Security** tabs and click **create**.
- Fill in the fields with a new username and password and assign a security level.
- Click **OK**.

**Step 15** Return to the communication program session and press Enter to bring up the system prompt (->).

- Step 16** Enter **bootChange** at the system prompt and continue to press Enter to scroll through the list of the parameters until you get to the startup script again.




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**Note** The **bootChange** command is case sensitive.

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- Step 17** Enter . (dot) after the *pwd\_recov* text string and press Enter to remove the password recovery setting.
- Step 18** Enter **bootChange** again and press Enter until you get to the startup script.
- Step 19** Confirm that at the startup script the *pwd\_recov* text string is no longer displayed.
- Step 20** Continue to press Enter to finish scrolling through the list of parameters.
- Step 21** Close the communication session.
- Step 22** Reinsert the TNC/TSC/TCC/XTC/CTX card that was removed in Step 12. It does not have the password recovery cable attached. Allow it to boot up.
- Step 23** Verify that the inserted TNC/TSC/TCC/XTC/CTX card is in service and the ACT/STBY LED shows a steady amber.
- Step 24** Using CTC, reset the TNC/TSC/TCC/XTC/CTX card with the password recovery cable attached. The connection to the node will be lost.
- Step 25** After the TNC/TSC/TCC/XTC/CTX card that has been reset finishes booting up, verify that it has become the standby card. The ACT/STBY LED now shows a steady amber.
- Step 26** Remove the TNC/TSC/TCC/XTC/CTX card with the password recovery cable attached, from the chassis.
- Step 27** Remove the password recovery cable.




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**Note** Store the password recovery cable in a secure location.

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- Step 28** Reinstall the TNC/TSC/TCC/XTC/CTX card that had the password recovery cable removed and let it reboot.
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This document is to be used in conjunction with the *Cisco ONS 15454 Procedure Guide*, *Cisco ONS 15454 Reference Manual*, and *Cisco ONS 15454 Troubleshooting Guide* publications.

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