



# Cisco NCS 2002 Shelf Installation Acceptance Test

This chapter describes how to perform a shelf acceptance test on Cisco NCS 2002 shelf.

- [NTP-L38 Performing the NCS 2002 Shelf Installation Acceptance Test](#) , on page 1

## NTP-L38 Performing the NCS 2002 Shelf Installation Acceptance Test

<b>Purpose</b>	Use this procedure to perform a shelf installation acceptance test for the NCS 2002.
<b>Tools/Equipment</b>	Voltmeter
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	None

### Procedure

- Step 1** If you installed an NCS 2002 shelf, verify each applicable procedure that was completed.

*Table 1: NCS 2002 Shelf Installation Task Summary*

Description	Completed
<a href="#">NTP-L41 Unpacking and Inspecting the Shelf</a>	
Connect the chassis to the office ground. For detailed instructions on how to ground the chassis, refer to the <a href="#">Electrostatic Discharge and Grounding Guide for Cisco NCS 2000 Series</a>	

Description	Completed
<a href="#">NTP-L30 Opening and Removing the Standard Door of the NCS 2002 Shelf</a>	
<a href="#">NTP-L35 Installing the Power and Ground to the NCS 2002 Shelf</a>	
<a href="#">NTP-L35 Installing the Fan-Tray Assembly in the NCS 2002 Shelf</a>	
<a href="#">DLP-L62 Installing the TNC, TNCE, TSC, TSCE, TNCS, or TNCS-O Card</a>	
<a href="#">NTP-L29 Installing the Standard Door of the NCS 2002 Shelf</a>	

- Step 2** Complete the [DLP-L49 Connecting Office Power \(AC\) to the NCS 2002 Shelf](#).
- Step 3** Complete the [DLP-L61 Measuring DC Voltage on the NCS 2002 Shelf](#), on page 2.
- Step 4** Continue with [Connect the PC and Log into the GUI](#).
- Stop.** You have completed this procedure.
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## DLP-L60 Inspecting the NCS 2002 Shelf Installation and Connections

<b>Purpose</b>	Use this task to inspect the shelf installation and connections and verify that everything is installed and connected properly.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	None

### Procedure

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- Step 1** Make sure all external wiring connections (that is, power, ground, alarms, and so on) are secure. If a wire or cable is loose, return to the appropriate procedure in this chapter to correct it.
- Step 2** Return to your originating procedure (NTP).
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## DLP-L61 Measuring DC Voltage on the NCS 2002 Shelf

<b>Purpose</b>	Use this task to measure the power to verify correct power and returns.
<b>Tools/Equipment</b>	Voltmeter

<b>Prerequisite Procedures</b>	Before installing the DC power, check the voltage
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	None



**Caution** Do not apply power to the shelf until you complete all the installation steps.



**Warning** To ensure safety of personnel and equipment, do not connect any power cables into the power module until the module is completely installed into the chassis. Statement 389



**Warning** To reduce the risk of electric shock, switch on the power only after the power cord is completely installed into the power module. Statement 390

### Procedure

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- Step 1** Using a voltmeter, verify the office ground and power:
- Place the black lead (positive) on the frame ground on the bay. Hold it there while completing substep b.
  - Place the red lead (negative) on the fuse power points on the third-party power distribution panel to verify that they read between  $-40.5$  VDC and  $-57.6$  VDC (power) and 0 (return ground).
- Step 2** Using a voltmeter, verify the shelf ground and power wiring:
- Place the black lead (positive) on the RET1(A) and the red lead on the  $-48$ V (A) point. Verify a reading between  $-40.5$  VDC and  $-57.6$  VDC. If there is no voltage, check the following and correct if necessary:
    - Battery and ground are reversed to the shelf.
    - Battery is open or missing.
    - Return is open or missing.
- Step 3** Repeat Steps 1 and 2 for the RET2 (B) and  $-48$ V (B) of the redundant power supply input.
- Step 4** Return to your originating procedure (NTP).
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