



## Configuring PRBS

This chapter describes the procedure to configure the PRBS.

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### Understanding PRBS

Pseudo Random Binary Sequence (PRBS) feature allows users to perform data integrity checks on their encapsulated packet data payloads using a pseudo-random bit stream pattern. PRBS generates a bit pattern and sends it to the peer router that uses this feature to detect if the sent bit pattern is intact or not.

### Configure PRBS Using CTC

Purpose	This task enables PRBS settings on the source and destination controllers of the circuit. PRBS can also be configured on the card.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in <i>System Setup and Software Installation Guide for Cisco NCS 4000 Series</i>
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

#### Procedure

- Step 1** Perform Step 2 to provision PRBS on the NCS4K-4H-OPW-QC2 card. Else, proceed with Step 3.
- Step 2** In the node view, double-click the card where you want to provision PRBS. The card view appears. Continue with Step 6.
- Step 3** In the network view, click the **OTN > Circuits** tabs.
- Step 4** To discover the circuits, complete [Discover a Circuit Using CTC](#).
- Step 5** Select a circuit in ACTIVE state and click **Edit**.

The Edit Circuit dialog displays.

- Step 6** Click the **Maintenance > PRBS Configuration** tabs.
- Step 7** Set the admin state to OOS,MT for the source and destination controllers.
- Step 8** From the Mode drop-down list, choose a mode.
- Step 9** From the Pattern drop-down list, choose a pattern.  
PN23 is not supported on the NCS4K-4H-OPW-QC2 card.
- Step 10** Click **Apply**.

**Stop. You have completed this procedure.**

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