



## Feature History

The following table lists the new features supported in the 48-Port T1/E1 CEM Interface Module Configuration Guide in Cisco IOS XE 17 releases., on Cisco NCS 4201 and Cisco NCS 4202 routers.

Feature	Description
<b>Cisco IOS XE Cupertino 17.8.1</b>	
<a href="#">NCS4200-48T1E1-CE support in NCS4202</a>	<p>The router supports the following features for the 48-Port T1/E1 Circuit Emulation (CEM) interface module:</p> <ul style="list-style-type: none"> <li>• Basic mode, and T1 or E1 controller required configurations</li> <li>• CEM clocking, ACR, and DCR</li> <li>• CEM pseudowires such as Structure-Agnostic TDM over Packet (SATOP) and Circuit Emulation over Packet-Switched Network (CESoPSN)</li> <li>• BERT, loopback, and alarms</li> <li>• Performance monitoring</li> </ul> <p>The support for the interface module provides cost-effective delivery of CEM over a packet-based network (MPLS).</p>
<b>Cisco IOS XE Bengaluru 17.5.1</b>	
<a href="#">GR-820-CORE Performance Monitoring</a>	The <b>show controller tabular</b> command enables you to view the performance monitoring details in tabular form as per GR-820-Core standards.
<b>Cisco IOS XE Bengaluru 17.4.1</b>	
<a href="#">Support for all 0s and 1s BERT Patterns</a>	Support for all 0s and 1s BERT patterns on T1 or E1 interfaces.

The following table lists the new and modified features supported in the 48-Port T1/E1 CEM Interface Module Configuration Guide in Cisco IOS XE 17 releases., on Cisco NCS 4206 and Cisco NCS 4216 routers.

Feature	Description
<b>Cisco IOS XE Bengaluru 17.5.1</b>	

Feature	Description
<a href="#">GR-820-CORE Performance Monitoring</a>	The <b>show controller tabular</b> command enables you to view the performance monitoring details in tabular form as per GR-820-Core standards.
<b>Cisco IOS XE Bengaluru 17.4.1</b>	
<a href="#">Support for all 0s and 1s BERT Patterns</a>	Support for all 0s and 1s BERT patterns on T1 or E1 interfaces.