

# Impact Matrix When TCC2/TCC2P is Inserted into Locked/Unlocked Shelf

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## Introduction

This document describes the impact matrix when you insert the Timing, Communications, and Control Card Version Two (TCC2) into the locked or unlocked shelf, versus the Timing, Communications, and Control Card Version Two Plus (TCC2P). TCC2P is a next-generation system processor for the Cisco ONS 15454 Multiservice Provisioning Platform (MSPP).

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco ONS 15454

### Components Used

The information in this document is based on these software and hardware versions:

- Cisco ONS 15454

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

### Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

## Background Information

When you install TCC2P, you can provision front access and backplane Ethernet ports in Repeater mode or in Secure mode.

The Secure mode isolates packets from the two interfaces from each other, in order to provide a higher level of security. In the Secure mode, craft technicians who work through the front Ethernet ports cannot access the Central Office LAN that is connected through the backplane Ethernet port.

If you require different levels of security in your network, you can associate user security levels with the ability to execute different commands. In addition, you can use the Secure Mode Lock to restrict changes to the network element (NE) settings even by users with the SuperUser attribute. The Secure Mode Lock enables you to ensure that users do not change the NE settings after you turn up and add the NE to the network. Activation of the Secure Mode Lock deactivates all the configuration options that the Lock protects. Items that the Secure Mode Lock protects are termed "Lockable" items.

## Impact Matrix

This section describes the impact matrix.

Figure 1 provides the TCC2 and TCC2P Compatibility Matrix.

**Figure 1 TCC2 and TCC2P Compatibility Matrix**

	Cisco ONS 15454 Release	Insert Card into a Locked Shelf	Insert Card into an Unlocked Shelf
Insert TCC2	5.0 and later	TCC2 resets continuously.	Works, but the shelf cannot be locked. You require ONS 15454 version 5.0 and a TCC2P card to lock the shelf.
	Earlier than 5.0	TCC2 resets continuously.	Works with the standard old configuration. It uses the old board and the old software.
Insert TCC2P	Locked card: 5.0 and later	Works correctly. This is the secure mode.	In the Standby mode, TCC2P locks itself. In the Active mode, TCC2P locks the shelf.
	Unlocked card: 5.0 and later	TCC2P locks the card. The software displays both IPs.	Works. The shelf remains unlocked. You can lock the shelf.
	Earlier than 5.0	Works. However, the shelf remains locked. The card cannot display Secure IP.	Works. However, you cannot lock the shelf. TCC2P requires ONS 15454 version 5.0 or later in order to lock.

## Findings

Based on Figure 1, here are the findings:

- Insert TCC2 into a shelf that runs ONS 15454 version 5.x or later.
  - ◆ If the shelf is in the locked mode, TCC2 resets continuously.
  - ◆ If the shelf is in the unlocked mode, TCC2 works, but you cannot lock the shelf. You require both ONS 15454 version 5.x and TCC2P to lock the shelf.
- Insert TCC2 into a shelf that runs ONS 15454 version 4.x or earlier.
  - ◆ If the shelf is in the locked mode, TCC2 resets continuously.
  - ◆ If the shelf is in the unlocked mode, TCC2 works.
- Insert TCC2P into a shelf that runs ONS 15454 version 5.x or later with a locked card.
  - ◆ If the shelf is in the locked mode, TCC2P works correctly. This is the Secure mode.
  - ◆ If the shelf is in the unlocked mode, TCC2P unlocks itself when TCC2P is in the standby mode. Activation of TCC2P locks the shelf.
- Insert TCC2P into a shelf that runs ONS 15454 version 5.x or later without a locked card.
  - ◆ If the shelf is in the locked mode, TCC2P locks the card and displays both IP addresses.
  - ◆ If the shelf is in the unlocked mode, TCC2P works and shelf remains unlocked. You can lock the shelf if necessary.
- Insert TCC2P into a shelf that runs ONS 15454 version 4.x or earlier.
  - ◆ If the shelf is in the locked mode, TCC2P works and the shelf remains locked, but secured IP address does not appear.
  - ◆ If the shelf is in the unlocked mode, TCC2P works, but you cannot lock the shelf. You require both ONS 15454 version 5.x and TCC2P in order to lock the shelf.

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## Related Information

- **Technical Support & Documentation – Cisco Systems**
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