Troubleshoot "IMPROPER REMOVAL" Alarm on ECU Pluggable Ports

Contents								
Introduction								
Problem								
Condition								
Observation								
Solution								

Introduction

This document describes the condition to raise and workaround to clear the "Improper Removal" alarm raised on External Connection Unit (ECU) PPMs for the M15 chassis.

Problem

Pluggable Port Modules (PPMs) on ECU report an "Improper Removal" alarm on the M15 chassis.

Condition

- 1. If pluggables are inserted and removed from the PPM ports on the ECU module, the ECU PPM port starts alarming the "Improper removal" alarm.
- 2. As per the system design, once the optics are inserted it recognizes the inventory and makes the port "ADMIN UP". There is no way to change the port Admin status to down as per design. Either make the port OOS or delete the PPM.

Observation

1. Improper Removal alarm on Shelf-1 slot 18 of all the PPM port ECU cards.

NE Name: Node_147 Node Address: 10.106.75.147

Nun	Ref	New	Date	Object	Eqpt Type	Slot	Port	Wavelength	Path Width	Sev	ST	SA	Cond	Description	Direction	Location
808	808	NA	08/05/01 13:14:47 IST		PPM (1 Port)	18	4	NA	NA	CR	R	true	IMPROPRMVL	Improper Removal	NA	NEAR
807	807	NA	08/05/01 13:14:47 IST	FAC-17-2- 1	TNC	17	2-1	1510.00 nm (100GHz)	NA	NA	R	NA	ALS- DISABLED	Auto Laser Shutdown Disabled	Transmit	NEAR
804	804	NA	08/05/01 13:13:44 IST	SLOT-16	17 SMR9 FS	16	NA	NA	NA	NA	R	NA	ALS- DISABLED	Auto Laser Shutdown Disabled	Transmit	NEAR
803	803	NA	08/05/01 13:12:28 IST		PPM (1 Port)	6	4	NA	NA	MN	R	NA	IMPROPRMVL	Improper Removal	NA	NEAR
802	802	NA	08/05/01 13:12:23 IST	SLOT-13	200G-CK- LC	13	NA	NA	NA	MN	R	NA	LIC-EXPIRED	License Expired	NA	NEAR
799	799	NA	08/05/01 13:12:03 IST	FAC-1-2-1	TNCS-2	1	2-1	1510.00 nm (100GHz)	NA	NA	R	NA	ALS- DISABLED	Auto Laser Shutdown Disabled	Transmit	NEAR
798	798	NA	08/05/01 13:12:01 IST	PPM-1-2	TNCS-2	1	2	NA	NA	MN	PROV- MISMATCH	NEAR				
NA		Alarms Suppressed By User Command	NEAR											Alarms Suppressed By User Command	NA	NEAR

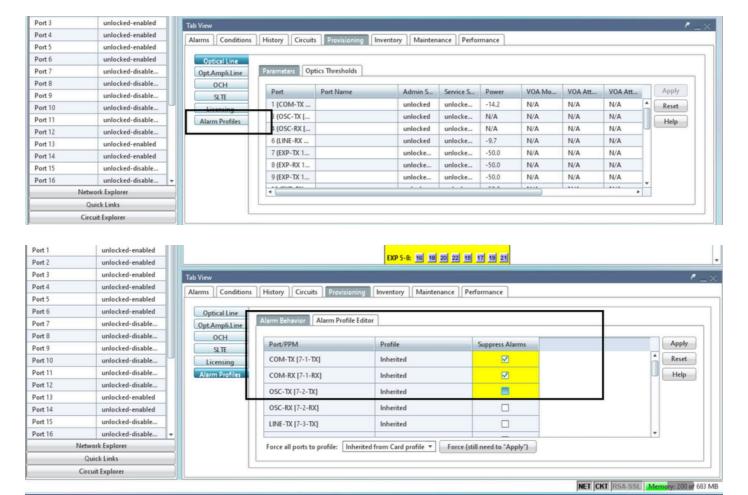
- 2. Navigate to the inventory tab and check if there are no optics present for all the PPM ports on the ECU card. It helps to understand if any action needs to be taken.
- 3. Neither reseating the cable in the ECU port nor reseating the card helps.
- 4. In order to delete the alarm for ECU, you need to restore the default configuration on the node and manually provision the node but this is a tedious task and traffic affecting in production environment.
- 5. If the Node backup (node backup taken when the alarm is present) is used after the node factory default state, the "Improper removal" alarm returns.

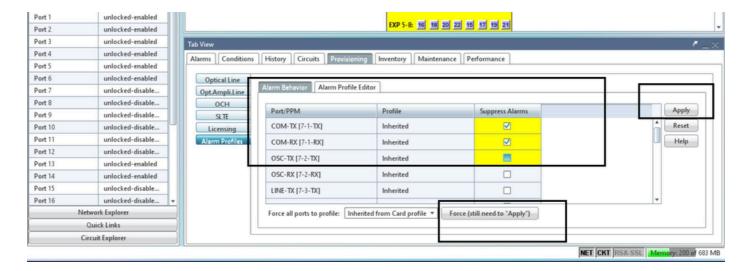
Solution

There are two ways to clear the alarm.

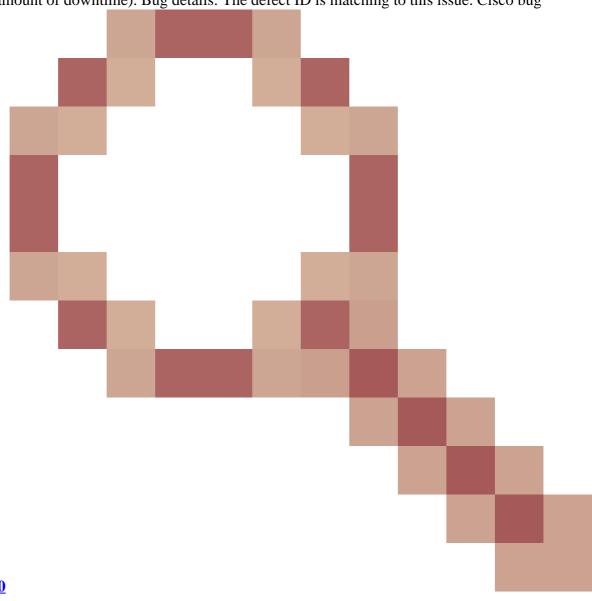
1. Suppress the alarm on the ECU PPM ports using Alarm Profiles which clears the alarm from the alarms Tab but still be visible in the conditions tab.

The procedure to suppress the alarms is to navigate to ECU card > Provisioning > Alarm profiles . Select PPM ports. Choose all the 5 ports and click Force option > Apply as shown in the image.





2. Or Reset the node to Default configuration and provision the node from scratch (which is not advisable as it needs a good amount of downtime). Bug details: The defect ID is matching to this issue. Cisco bug



ID **CSCwe06300**