

Table of Contents

<u>Inventory Failure on Cisco ONS 15305 – AC 230V Module Installation</u>	1
<u>Document ID: 60564</u>	1
<u>Introduction</u>	1
<u>Prerequisites</u>	1
<u>Requirements</u>	1
<u>Components Used</u>	1
<u>Conventions</u>	1
<u>Background Information</u>	2
<u>Problem</u>	2
<u>Solution</u>	3
<u>NetPro Discussion Forums – Featured Conversations</u>	3
<u>Related Information</u>	4

Inventory Failure on Cisco ONS 15305 – AC 230V Module Installation

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Introduction

Prerequisites

Requirements

Components Used

Conventions

Background Information

Problem

Solution

NetPro Discussion Forums – Featured Conversations

Related Information

Introduction

This document describes one of the reasons why the Cisco ONS 15305 can generate an **inventory failure** error message, and provides the solution.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco ONS 15305
- Cisco Edge Craft

Components Used

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

- Cisco ONS 15305 Software Release 1.1.0
- Cisco Edge Craft Software Release 1.1

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

A bank is a memory location in Cisco ONS 15305 where software and firmware are stored.

There are two banks. One stores the running software, and the other stores the backup software version. The backup software version can either be newly loaded software that awaits to be made active, or can be existing system software.

You can download Cisco ONS 15305 Release 1.1.0 from the ONS 15305 Software Download page (registered customers only) .

Problem

After you install an AC 230V power module on a Cisco ONS 15305 that runs Software Release 1.0.0, an **inventory failure** error message appears (see figure 1). The problem persists even if you upgrade to Software Release 1.1.0. The error message still appears.

Note: Release 1.1.x and later support the AC 230V power module.

Figure 1 Inventory Failure Error Message

The screenshot shows the Cisco Edge Craft interface for ONS 15305 at 10.254.229.30. The main window displays a topology tree on the left and a table of hardware components on the right. The table lists various components like fans, power modules, and boards. At the bottom, an 'Alarm Display' window shows a major error with the message 'inventory failure' highlighted in red and pointed to by a red arrow.


















Id	Name	HwType	ProductNumber	SerialNumber	Ics
15305-FAN-ALM		fanAndAlarm	74-3224-01	0350006758	A0
15305-AC-230V		power1	74-3441-01	0414009001	A0
		power2			
SYSCONT-5D128-RJ45		sysCont	48003-23AA	0350007002	01
MAIN BOARD		mainBoard	40004-01AA	0350006113	03
ONS15305 64x64/20G BaseMo...		device	74-3103-01	0351007647	A0
BOOTSTRAP SW		bootSw	45004-86AA		02

Id	Severity	NE	Moid	EmsTime /	NeTime	Prob Cause	Prob Cause Q	Clearal
30	Major	ONS 15305	device	2004/05/11 12:09:12	2004/03/15 12:31:26	inventory failure	inventoryFail	true

Solution

Load ONS 15305 Release 1.1.0 after you install the 230V module. Release 1.1.0 contains system control software files, which end with .bin. Release 1.1.0 also contains a network release file which ends with .def (see figure 2).

Figure 2 ONS 15305 Release 1.1.0 Files

 45004-70AA_PM_ED05.bin	BIN File	9/5/2003 4:15 PM	677,438	68%	218,310
 45004-72AA_PM_ED05.bin	BIN File	11/21/2003 10:0...	728,060	42%	424,871
 45004-73AA_PM_ED02.bin	BIN File	4/9/2003 3:30 PM	493,601	40%	295,282
 45004-73AB_PM_ED03.bin	BIN File	3/23/2004 11:31 ...	493,601	40%	295,245
 45004-74AA_PM_ED05.bin	BIN File	10/1/2003 5:40 PM	480,329	46%	258,745
 45004-76AA_PM_ED04.bin	BIN File	10/1/2003 5:43 PM	343,525	46%	184,770
 45004-77AB_PM_ED06.bin	BIN File	3/18/2004 2:47 PM	1,765,294	0%	1,761,...
 45004-81AA_PM_ED03.bin	BIN File	4/9/2003 2:57 PM	493,601	44%	277,997
 45004-82AB_PM_ED03.bin	BIN File	10/1/2003 5:46 PM	412,853	40%	246,270
 45004-83AA_PM_ED02.bin	BIN File	10/1/2003 5:48 PM	510,508	42%	294,372
 45004-84AA_PM_ED02.bin	BIN File	4/9/2003 2:41 PM	493,601	41%	289,398
 45004-85AA_PM_ED03.bin	BIN File	11/21/2003 10:0...	313,346	43%	177,067
 45004-87AA_PM_ED04.bin	BIN File	11/21/2003 10:0...	313,346	43%	177,064
 45004-88AA_PM_ED02.bin	BIN File	10/1/2003 5:52 PM	827,567	40%	494,171
 45004-89AA_PM_ED02.bin	BIN File	10/1/2003 5:54 PM	343,525	46%	184,770
 45016-01AA_PM_ED04.bin	BIN File	11/21/2003 10:4...	936,345	42%	545,792
 55004-01AB_PM_ED06.def	DEF File	3/23/2004 1:32 PM	2,176	87%	286

System Control Software (indicated by a red arrow pointing to the .bin files)

Network Release (indicated by a red arrow pointing to the .def file)

In order to successfully upgrade from Release 1.0.0 to 1.1.0, you must load both types of file to the Cisco Edge Craft tool from the TFTP server with the help of the procedure in this document. The Release Notes for Release 1.1.0 also outlines this procedure.

Note: You must follow the correct sequence.

Complete these steps in order to load ONS 15305 Release 1.1.0:

1. Download the System Controller software (45004–77xx_PM_EDnn.bin).
2. Switch the bank, and reboot.
3. Download the complete Network Release (55004–01xx_PM_EDnn.def).
4. Switch the bank and reboot.

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Networking Professionals Connection is a forum for networking professionals to share questions, suggestions, and information about networking solutions, products, and technologies. The featured links are some of the most recent conversations available in this technology.

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Service Providers: Optical Networking
Service Providers: Metro

Related Information

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