

# Oracle® Communications

## EAGLE Release Notice



Release 47.0

F41422-06

August 2024

ORACLE®

Oracle Communications EAGLE Release Notice, Release 47.0

F41422-06

Copyright © 1993, 2024, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

# Contents

<b>1</b>	<b>Introduction</b>	
1.1	EAGLE 47.0 Introduction	1-1
<b>2</b>	<b>Feature Descriptions</b>	
2.1	New TBGTTLs Key Options	2-1
2.2	ENUM requirements for TIF Enhancements	2-1
2.3	Support for Port 53 for ENUM	2-1
2.4	Invalid_TCAPClassTag	2-1
2.5	TOBR Enhancement to perform "Operation Code Tag " based routing	2-2
2.6	DEIR	2-3
2.7	Enhancement Bugs	2-3
2.8	Operational Changes	2-3
2.8.1	Unsolicited Alarm Messages	2-3
2.8.2	Error Messages	2-3
2.8.3	EAGLE Configuration Table Data Reports	2-4
<b>3</b>	<b>Media and Documentation</b>	
3.1	Media Pack	3-1
3.2	Documentation Pack	3-2
<b>4</b>	<b>Supported Hardware Baseline</b>	
4.1	EAGLE Card Overview	4-1
4.2	Hardware Baseline	4-4
<b>5</b>	<b>Supported Upgrade Paths</b>	
5.1	Supported Upgrade Paths	5-1
5.2	Generic Program Loads (Release 47.0)	5-2

6	Product Compatibility	
6.1	Load Line Up	6-1
7	Resolved and Known Bugs	
7.1	Severity Definitions	7-1
7.2	Resolved Bug List	7-2
7.3	Customer Known Bug List	7-9
8	Oracle References and Services	
8.1	My Oracle Support (MOS)	8-1
8.2	Product Support	8-2
8.3	Locate Product Documentation on the Oracle Help Center Site	8-2
8.4	Locate Product Release Software on the Oracle Software Delivery Cloud Site	8-2

# What's New in This Guide

## **Release 47.0.0.3.0 - F41422-06, August 2024**

Updated the following sections with the details of EAGLE release 47.0.0.3.0:

- [Media Pack](#)
- [Generic Program Loads \(Release 47.0\)](#)
- [Resolved Bug List](#)

## **Release 47.0.0.2.0 - F41422-05, November 2023**

Updated the following sections with the details of EAGLE release 47.0.0.2.0:

- [Media Pack](#)
- [Supported Upgrade Paths](#)
- [Generic Program Loads \(Release 47.0\)](#)
- [Resolved Bug List](#)
- [Customer Known Bug List](#)

## **Release 47.0.0.1.0 - F41422-04, August 2023**

Made formatting changes.

## **Release 47.0.0.1.0 - F41422-03, July 2023**

Updated the following sections with the details of EAGLE release 47.0.0.1.0:

- [Media Pack](#)
- [EAGLE Card Overview](#)
- [Supported Upgrade Paths](#)
- [Generic Program Loads \(Release 47.0\)](#)
- [Resolved Bug List](#)
- [Customer Known Bug List](#)

# 1

## Introduction

This Release Notice includes feature descriptions, supported hardware, and media and documentation pack contents; and identifies the supported upgrade paths. This document includes listings for both the resolved and known bugs for this release. Directions for accessing key Oracles sites and services are also identified in the [Oracle References and Services](#) chapter.

Release Notices are included in the documentation pack made available with every software release.

### 1.1 EAGLE 47.0 Introduction

Oracle Communications EAGLE is a platform that delivers signaling solutions to telecommunication networks worldwide.

# 2

## Feature Descriptions

This chapter provides a summary of each feature released in EAGLE 47.0.

### 2.1 New TBGTTLS Key Options

This feature introduces new transaction parameters "ENHMTPS CCP" and "MTPSCCP" on which Transaction-Based GTT Load Sharing is performed on an incoming MSU. ENHMTPS CCP uses the properties of both ENHMTP and SCCP while MTPSCCP uses the properties of MTP and SCCP for better load sharing.

These new TBGTTLS key options distribute traffic evenly without any call failures in production network.

For more details, refer to *Database Administration - GTT User's Guide*.

### 2.2 ENUM requirements for TIF Enhancements

With this release, EAGLE ensures that ENUM queries are consistent with TIF (Triggerless ISUP Framework) enhancements even after the introduction of multiple lists in EPAP, which target specific numbers (spoofed numbers) on specific linksets.

Various enhancements have been made to ENUM Number Portability and NAPTR regex response to DN queries. For more information, refer to *ENUM User's Guide*.

### 2.3 Support for Port 53 for ENUM

From this release, EAGLE supports the value of 53 for LPORT along with the range from 1024 to 65535 for ENUM queries.

For more information, refer to *ENUM User's Guide*.

### 2.4 Invalid\_TCAPClassTag

When the TCAP Opcode Based Routing feature is enabled and turned on, the information contained in the TCAP portion of messages is used for performing global title translation.

With this release, EAGLE allows messages only with TCAP Tag Class **UNIVERSAL** ('00'). The Tag Class, generally, consists of "Universal", "Application-wide", "Context-specific", and "Private use" parameters. But TOBR returns decoding error in case Opcode Tag Class is other than **UNIVERSAL**. Such a message is discarded and does not undergo global title translation.

For more information, refer to *Database Administration - GTT User's Guide*.

## 2.5 TOBR Enhancement to perform "Operation Code Tag " based routing

TCAP Opcode Based Routing provides additional capability to EAGLE to route the message based on Operation Code Tag. This routing enables the EAGLE to prevent the "Global Tag Abuse" security issue. To perform global title translation on ITU messages, EAGLE considers the following information contained in the TCAP portion of the message:

- Message Type / Package Type
- Application Context Name
- Operation Code
- Operation Code Tag

For the Operation Code Tag based routing, the key for ITU opcode translations is the ITU opcode, the ITU TCAP Package Type, the Application Context Name (ACN), and the OpCodeTag. The values in ITU OpCode Tag can be "local", "global", "any" and "none". The value "none" in the OpCode Tag indicates that the TOBR is not able to decode the OpCodeTag in the incoming MSU message.

For the Operation Code Tag based routing, TOBR matches the translation based on OpCodeTag with the OpCodeTag of the incoming MSU. [Table 2-1](#) shows the search order for OpCodeTag Translation.

**Table 2-1 OpCodeTag Translation Searching Order**

Priority	OpCode Tag	TCAP Package Type	Opcode ( ANSI)	ACN
1	Exact (value)	Exact (value)	Exact (none or number)	Exact (none or number)
2	Exact	Exact	Exact	Any
3	Exact	Exact	Any	Exact
4	Exact	Exact	Any	Any
5	Exact	Any	Exact	Exact
6	Exact	Any	Exact	Any
7	Exact	Any	Any	Exact
8	Exact	Any	Any	Any
9	Any	Exact (value)	Exact (none or number)	Exact (none or number)
10	Any	Exact	Exact	Any
11	Any	Exact	Any	Exact
12	Any	Exact	Any	Any
13	Any	Any	Exact	Exact
14	Any	Any	Exact	Any
15	Any	Any	Any	Exact
16	Any	Any	Any	Any

For more information, refer to *Database Administration - GTT User's Guide*.



## 2.6 DEIR

EAGLE 47.0 does not support DEIR feature. However, this functionality is going to be supported in future EAGLE releases.

## 2.7 Enhancement Bugs

This section shows EAGLE 47.0 enhancement bugs:

**Table 2-2 Enhancement Bugs**

Bug Number and Title	Description
31015859 New TBGTTLs Key option required	A new TBGTTLs Key option is needed to use properties of both ENHMTTP & SCCP in a single algorithm so that all kind of traffic can be handled properly with a fair load sharing.
33048221 Send Severity1 Alarms from EAGLE to PIC	After upgrading to EAGLE 46.7.6.0.0-75.37.0 the customer experienced a PIC outage while MASP A was active. System monitoring platofmrs monitor for documented UAMs (alarms) but do not monitor for Severity 1 messages.
33848043 Invalid_TCAPClassTag	TCAP Tag Class manipulation is observed on the international interconnect between networks, where offending sources send a TCAP message with manipulated Tag Class.
32228085 TOBR enhancement to perform "Operation Code Tag " based routing	An enhancement request for EAGLE TOBR routing to prevent "Global Tag Abuse".
24956648 Support for Port 53 for ENUM	Request for Port 53 support for ENUM query. Currently only ports greater than 1024 are supported.
33327638 ENUM requirements for TIF enhancements	With concept of multiple lists in EPAP in order to target specific numbers (i.e. spoofed number) on specific linksets the requirement is to ensure ENUM queries are consistent with TIF.

## 2.8 Operational Changes

EAGLE Release 47.0 does not contain new unsolicited alarm and information messages and new and updated error messages.

### 2.8.1 Unsolicited Alarm Messages

The Unsolicited Alarm Messages (UAMs) in this section are introduced or updated in EAGLE Release 47.0.

- **599 - RW Time Mismatch**  
This alarm indicates that there is a mismatch of RW Timing.

### 2.8.2 Error Messages

EAGLE Release 47.0 does not contain any new or updated error messages.

## 2.8.3 EAGLE Configuration Table Data Reports

No changes for this release.

# 3

## Media and Documentation

Oracle Communications software is available for electronic download on the [Oracle Software Delivery Cloud \(OSDC\)](#). Documentation is delivered electronically on the [Oracle Help Centre \(OHC\)](#). Both the software Media Pack and Documentation Pack are listed in this chapter.

### 3.1 Media Pack

All components available for download from the [MOS](#) website are listed in the following tables.



#### Note:

This list is accurate at the time of release but is subject to change. See the [MOS](#) website for the latest information.

**Table 3-1 Media Pack Contents for EAGLE 47.0.0.3.0**

Description
Oracle Communications EAGLE (47.0.0.3.0-79.13.23), Tekelec
Oracle Communications EAGLE CAT2 (47.0.0.0.0-78.8.0)
Oracle Communications EAGLE External Database (47.0.0.0.0-79.10.0)
Oracle Communications EAGLE (47.0.0.3.0-79.13.23) MIBS

**Table 3-2 Media Pack Contents for EAGLE 47.0.0.2.0**

Description
Oracle Communications EAGLE (47.0.0.2.0-79.13.21), Tekelec
Oracle Communications EAGLE CAT2 (47.0.0.0.0-78.8.0)
Oracle Communications EAGLE External Database (47.0.0.0.0-79.10.0)
Oracle Communications EAGLE (47.0.0.2.0-79.13.21) MIBS

**Table 3-3 Media Pack Contents for EAGLE 47.0.0.1.0**

Description
Oracle Communications EAGLE (47.0.0.1.0-79.13.19), Tekelec
Oracle Communications EAGLE CAT2 (47.0.0.0.0-78.8.0)
Oracle Communications EAGLE External Database (47.0.0.0.0-79.10.0)
Oracle Communications EAGLE (47.0.0.1.0-79.13.19) MIBS

**Table 3-4 Media Pack Contents for EAGLE 47.0**

Description
Oracle Communications EAGLE (47.0.0.0-79.13.0), Tekelec
Oracle Communications EAGLE CAT2 (47.0.0.0-78.8.0)
Oracle Communications EAGLE External Database (47.0.0.0-79.10.0)
Oracle Communications EAGLE (47.0.0.0-79.13.0) MIBS
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.6.0.0-73.18.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.6.2.0-73.26.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.6.3.0-73.28.1
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.6.4.0-73.30.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.6.5.0-73.31.1
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.7.0.0-75.27.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.7.1.0-75.29.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.7.2.0-75.30.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.7.4.0-75.32.1
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.7.5.0-75.36.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.7.5.1-75.36.33
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.7.6.0-75.37.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.7.7.0-75.38.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.8.0.0-75.18.17
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.8.1.0-75.18.18
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.8.2.0-75.18.19
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.9.0.0-76.28.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.9.1.0-76.39.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.9.1.20-77.5.11
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.9.2.0-76.41.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.9.3.0-76.45.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.9.4.0-76.47.0
Oracle Communications EAGLE Rollback OAMHC69 GPL for Release 46.9.5.0-76.48.0

## 3.2 Documentation Pack

All documents available for download from the [Oracle Help Center \(OHC\)](#) are listed in [Table 3-5](#).



### Note:

This list is accurate at the time of release, but it is subject to change. See the Oracle Help Center for the latest information.

**Table 3-5 Documentation Pack Contents**

Release Notices and Licensing Information User Manuals
Release Notice
Licensing Information User Manual

**Table 3-5 (Cont.) Documentation Pack Contents**

EAGLE Compatibility Matrix
<b>EAGLE Hardware, Installation, Software Upgrade, and Maintenance</b>
Hardware Reference
Installation Guide
Maintenance Guide
System Health Check Guide
Software Upgrade Guide
Application B Card Hardware and Installation Guide
<b>EAGLE Core Manuals</b>
Commands User's Guide
Commands Error Recovery Reference
Database Administration – Features User's Guide
Database Administration – GTT User's Guide
Database Administration – GWS User's Guide
Database Administration – IP7 Secure Gateway User's Guide
Database Administration – SEAS User's Guide
Database Administration – SS7 User's Guide
Database Administration – System Management User's Guide
Measurements Reference
Unsolicited Alarms and Information Messages Reference
Security Guide
<b>EAGLE Feature Manuals</b>
A-Port User's Guide
Analyzed Information Features User's Guide
ATINP User's Guide
EIR User's Guide
ENUM User's Guide
G-Flex C7 Relay User's Guide
G-Port User's Guide
IDP-Related Features User's Guide
INP/AINPQ User's Guide
IS41 GSM Migration User's Guide
Logging and Visualization User's Guide
MO SMS User's Guide
Numbering Plan Processor (NPP) User's Guide
SIGTRAN User's Guide
SLIC Card Configuration User's Guide
Stateful Applications User's Guide
TIF User's Guide
V-Flex User's Guide
<b>EAGLE Reference Manuals</b>
Master Glossary
Previously Released Features
Related Publications Reference

**Table 3-5 (Cont.) Documentation Pack Contents**

Table Data Report CSV File Format Reference
---

# 4

## Supported Hardware Baseline

The hardware identified in this chapter comprises the hardware and server versions that have been verified with this release.

### 4.1 EAGLE Card Overview

The EAGLE Card Overview table is a resource table that provides an overview of information for cards that can be provisioned in EAGLE. For a detailed description of supported hardware, see Table below.

This table lists the following card information:

- GPLs and applications that can run on the card
- Provisioned card type
- Name of the card as shown on the card label
- Card part number
- Number of shelf slots that the card occupies (1 or 2)
- Number of physical ports on the card
- Maximum number of links that can be assigned to the card

**Table 4-1 EAGLE Card Overview Table**

Card Applications	Card GPLs	Provisioned Card Type	Card Name as shown on the card label	Card Part Number	Slots per Card	Ports per Card	Links per Card
atmansi	atmhc69 bldc32	limatm	E5-ATM-B	870-2972-01	1	4 (3 used)	2
atmitu		lime1atm					
ccs7itu	ss7hc69 bldc32	lime1	E5-E1T1-B	870-2970-01	1	8	64
	ss7hc69 blsl932		SLIC	7094646 7352578	1	4	96
ccs7itu	ss7hc69 bldc32	lime1 (for SE-HSL)	E5-E1T1-B	870-2970-01	1	8	2
	ss7hc69 blsl932		SLIC	7094646 7352578	1	2	3
enumhc	enum64 bldc64	dsm	E5-SM8G-B	870-2990-01	2	2 Ethernet	1 Ethernet for MPS link 1 Ethernet for Signaling (16 TCP; 1 UDP)

Table 4-1 (Cont.) EAGLE Card Overview Table

Card Application	Card GPLs	Provisioned Card Type	Card Name as shown on the card label	Card Part Number	Slots per Card	Ports per Card	Links per Card
	enum64 blslc64		SLIC	7094646 7352578	1	4 Ethernet	2 Ethernet for MPS links 2 Ethernet for Signaling links (2 UDP)
eroute	erthc69 bldc32	stc	E5-ENET-B	870-2971-0 1	1	2	2 Ethernet
	erthc69 blsl932		SLIC	7094646 7352578			
hipr2	hipr2	N/A	HIPR2	7333484	1	N/A	N/A
				870-2872-0 1Foot 2			
				870-2872-0 2Foot 2			
ips	ipshc69 bldc32	ipsm	E5-ENET-B	870-2971-0 1	1	2 (use only A)	1 ipshc service
	ipshc69 blsl932		SLIC	7094646 7352578	1	1	1 Ethernet
ipsg	ipsg69 bldc32	enet enetb	E5-ENET-B	870-2971-0 1	1	4	32
	ipsg69 blsl932	enetb	SLIC	7094646 7352578	1	4 Ethernet	2 Ethernet for Signaling links (32 SCTP) 2 Ethernet for Fast Copy
	ipsg69 blsl932	slic	SLIC	7094646 7352578	1	4 Ethernet	2 Ethernet for Signaling links (128 SCTP) 2 Ethernet for Fast Copy
ipsg + GTT	ipsg932 blsl932	slic	SLIC	7094646 7352578	1	4 Ethernet	2 Ethernet for Signaling links (32 SCTP) 2 Ethernet for Fast Copy



Table 4-1 (Cont.) EAGLE Card Overview Table

Card Applications	Card GPLs	Provisioned Card Type	Card Name as shown on the card label	Card Part Number	Slots per Card	Ports per Card	Links per Card
mcp	mcphc69 bldc32	mcpm	E5-MCPM-B	870-3089-01	1	2 (use only A)	1 Ethernet
	mcphc69 blsl932		SLIC	7094646 7352578	1	1	1 Ethernet
oam	oamhc69 bldc32	N/A	E5-MASP	7346924	2	2	N/A
				870-2903-01Foot 2			
				870-2903-02Foot 2			
				870-2903-03Foot 2			
sfapp	sfapp blslc64	slic	SLIC	7094646 7352578	1	1 Ethernet	1 Ethernet for Visualization links (8 TCP)
siphc	sip64 bldc64	dsm	E5-SM8G-B	870-2990-01	2	2 Ethernet	1 Ethernet for MPS link
							1 Ethernet for Signaling (16 TCP; 1 UDP)
	sip64 blslc64		SLIC	7094646 7352578	1	4 Ethernet	2 Ethernet for MPS links
							2 Ethernet for Signaling links (16 TCP; 2 UDP)
ss7ansi	ss7hc69 bldc32	limt1	E5-E1T1-B	870-2970-01	1	8	64
	ss7hc69 blsl932		SLIC	7094646 7352578	1	4	96
ss7ansi	ss7hc69 bldc32	limt1 (for ST-HSL-A)	E5-E1T1-B	870-2970-01	1	8	2
	ss7hc69 blsl932		SLIC	7094646 7352578	1	2	3
vsccp	sccp64 bldc64	dsm	E5-SM8G-B	870-2990-01	2	2 Ethernet	2 Ethernet for MPS links

Table 4-1 (Cont.) EAGLE Card Overview Table

Card Applications	Card GPLs	Provisioned Card Type	Card Name as shown on the card label	Card Part Number	Slots per Card	Ports per Card	Links per Card
	sccp64 blslc64		SLIC	7094646 7352578	1	3 Ethernet	2 Ethernet for MPS links 1 Ethernet for Visualization links (8 TCP)
		slic		7094646 7352578	1	3 Ethernet	2 Ethernet for MPS links 1 Ethernet for Visualization links (8 TCP)
N/A	N/A	N/A	E5-MDAL	7346923 870-2900-01Foot 2	2	N/A	N/A
elap epap lsms nas imf	N/A	e5appb	E5-APP-B	870-3096-xx	2	4	N/A

## 4.2 Hardware Baseline

Component	Part Number	ROHS Number (if applicable)	Required for:
Control Shelf	870-2321-02 Rev A	7335031	Standard Frame
	870-2321-04 Rev A		
	870-2377-01 Rev A	870-2377-02 Rev A	Heavy Duty Frame
Control Shelf Backplane	850-0330-06 Rev A	7333412	
Extension Shelf	870-2378-01 Rev A	7335033	Heavy Duty Frame
	870-0776-02 Rev C		Standard Frame
	870-0776-03 Rev D		
	870-0776-06 Rev A		
	870-0776-07 Rev A		
	870-0776-08 Rev A or 870-0776-11 Rev A		
Air Management Card	870-1824-01 Rev A	870-1824-02 Rev A	Shelves with Fan Assembly
E5-APP-B	870-3096-xx		

Component	Part Number	ROHS Number (if applicable)	Required for:
E5-ATM-B		870-2972-01 Rev A	
E5-ATM Adapter		830-1342-05	
E5-E1T1-B		870-2970-01 Rev A	
E5-ENET-B		870-2971-01 Rev A	
E5-MASP		7346924	
		870-2903-01 Rev C	
		870-2903-02 Rev A	
		870-2903-03 Rev A	
E5-MCPM-B		870-3089-01 Rev A	
E5-MDAL		7346923	
		870-2900-01 Rev A	
E5-SM8G-B		870-2990-01 Rev A	
FAP	870-1606-01 Rev A or		Standard Frame or Standard Frame with HCMIMs
	870-1606-02 Rev A	870-1606-05 Rev A	
	870-2320-01 Rev A	870-2320-03 Rev A	Heavy Duty Frame or Heavy Duty Frame with HC-MIMs
	870-1823-01 Rev B	870-2804-01 Rev B	
FAP-CF/EF	870-0243-08 Rev C		
FAP-MISC	870-0243-09 Rev C		
FAP Fuse and Alarm Panel	870-2804-01 Rev A		
Fast Copy Adapter Upper		830-1343-01 Rev A	
Fast Copy Adapter Lower		830-1343-02 Rev A	
HIPR2		7333484	
		870-2872-01 Rev A	
		870-2872-02 Rev C	
SLIC		7094646	
		7352578	
High-speed Fiber Channel Cable		830-1344-xx	
DC Frame Assembly	890-1843-01 Rev C	890-1843-02 Rev A	
In Heavy Duty Frame	890-1801-01 Rev E	890-1801-02 Rev A	
Kit E1	890-1037-01 Rev A	890-1037-06 Rev A	
Kit, Holdover Clock Assy	890-1013-01 Rev A		
Fan Assy (Standard Frame)	890-1038-01 Rev D		
Fan Assy (Shelves with EPM-B cards)	890-0001-01 Rev A or	7315823	
	890-0001-02 Rev A		



**Note:**

On EAGLEs getting upgraded to R47.0, EPAP MPS ports on Service Module cards must be configured to support 1Gbps EPAP-to-EAGLE RTDB download speed. SM cards must also be connected to EPAP with CAT5 straight-through cables (P/N 830-0724-xx or 830-1174-xx; see *Installation Guide*).

# 5

## Supported Upgrade Paths

This release has been tested for upgrade from specific prior releases. This chapter contains the exact paths for upgrade. Please verify your current installed release is listed on a valid upgrade path.

### 5.1 Supported Upgrade Paths

The possible upgrade paths to EAGLE 47.0 are listed in the following table.

From	To
EAGLE release 46.6	EAGLE release 47.0
EAGLE release 46.7	EAGLE release 47.0
EAGLE release 46.8	EAGLE release 47.0
EAGLE release 46.9	EAGLE release 47.0
EAGLE release 46.9.1.20.0	EAGLE release 47.0
EAGLE release 47.0.0.X	EAGLE release 47.0.0.X



#### Note:

An upgrade from EAGLE 47.0.0.0.0-79.13.0 to EAGLE 47.0.0.1.0-79.13.19 will be a Full Upgrade, not an Incremental Upgrade. Full upgrade is required because new GPLs have been added to the EAGLE 47.0.0.1.0 release. SLIC and E5-ENET-B cards will now be able to load IPSG VxWorks 6.4-based GPLs.

## 5.2 Generic Program Loads (Release 47.0)

GPL System Name	Version Build 47.0.0.1.0-79.13.19	Version Build 47.0.0.0.0-79.13.0
Date Available	July 2023	September 2022
ATMHC	1149.13.19	149.13.0

GPL System Name	Version Build 47.0.0.1.0-79.13.19	Version Build 47.0.0.0.0-79.13.0
	ss rr oo nn BB uu dd 44 77 00 00 32 00 77 99 11 33 22 31	
ATMHC69	1149.13.19 44 99 11 33 22 31	149.13.0
BLDC32	1149.13.17 44 99 11 33 21 37	149.4.0
BLDC64	1149.13.17 44 99 11 33 21 37	149.4.0

GPL System Name	Version Build 47.0.0.1.0-79.13.19	Version Build 47.0.0.0.0-79.13.0
	ss oo nn BB uu dd 44 77 00 00 32 00 77 99 11 33 22 31	
BLMCAP	1149.13.17 44 99 11 33 21 37	149.4.0
BLSL932	1149.13.17 44 99 11 33 21 37	149.4.0
BLSLC32	1149.13.17 44 99 11 33 11 77	NA



GPL System Name	Version Build	Version Build
	47.0.0.1.0-79.13.19	47.0.0.0.0-79.13.0
BSLC64	1149.13.17	149.4.0
ENUM64	1149.13.19	149.13.0
ERTHC	1149.13.19	149.13.0

GPL System Name	Version Build	Version Build
	47.0.0.1.0-79.13.19	47.0.0.0.0-79.13.0
ERTHC69	1149.13.19	149.13.0
HIPR2	1146.1.0	146.1.0
IPSG	1149.13.19	NA

GPL System Name	Version Build	Version Build
	47.0.0.1.0-79.13.19	47.0.0.0.0-79.13.0
IPSG32	1149.13.19	NA
IPSG69	1149.13.19	149.13.0
IPSG932	1149.13.19	149.13.0

GPL System Name	Version Build	Version Build
	47.0.0.1.0-79.13.19	47.0.0.0.0-79.13.0
IPSHC69	1149.13.19	149.13.0
MCPHC69	1149.13.19	149.13.0
OAMHC69	1149.13.19	149.13.0

GPL System Name	Version Build 47.0.0.1.0-79.13.19	Version Build 47.0.0.0.0-79.13.0
	rr ss -- oo -- mm -- bb -- uu -- dd -- 44 -- 77 -- oo -- oo -- 32 -- oo -- 77 -- 99 -- 11 -- 33 -- 22 -- 31	
SCCP64	11149.13.19 44 99 -- 11 33 -- 22 31	149.13.0
SFAPP	11149.13.19 44 99 -- 11 33 -- 22 31	149.13.0
SIP64	11149.13.19 44 99 -- 11 33 -- 22 31	149.13.0

GPL System Name	Version Build 47.0.0.1.0-79.13.19	Version Build 47.0.0.0.0-79.13.0
SS7HC	1149.13.19	149.13.0
SS7HC69	1149.13.19	149.13.0

# 6

## Product Compatibility

Refer to *EAGLE Compatibility Matrix* for the product compatibility between this product release and the releases of other products.

### 6.1 Load Line Up

This section lists subsystem products and versions affected by features delivered in this release. The following table contains the order in which the upgrade should take place, where 1 is first, 2 is next, and so on. The most current release should be used for all products in [Table 6-1](#).



#### **WARNING:**

Failure to upgrade in the correct order may cause a service outage/discontinuity between products.

**Table 6-1 Load Line Up**

Product Element	Upgrade Order (if applicable)
EAGLE	1
LSMS	2
LSMS Query Server	3
ELAP	4
FTRA	5
EPAP	Not Applicable
PIC	Not Applicable
EMS	Not Applicable
EAGLE Query Server	Not Applicable

# Resolved and Known Bugs

This chapter lists the resolved and known bugs for EAGLE release 47.0.

These lists are distributed to customers with a new software release at the time of General Availability (GA) and are updated for each maintenance release.

## 7.1 Severity Definitions

The problem report sections in this document refer to bug severity levels. Definitions of these levels can be found in the publication, *TL 9000 Quality Management System Measurement Handbook*.

**Problem Report:** A report from a customer or on behalf of the customer concerning a product or process defect requesting an investigation of the issue and a resolution to remove the cause. The report may be issued via any medium.

Problem reports are systemic deficiencies with hardware, software, documentation, delivery, billing, invoicing, servicing, or any other process involved with the acquisition, operation, or performance of a product. An incident reported simply to request help to bring back the service or functionality to normal without the intent to investigate and provide a resolution to the cause of the incident is not a problem report.

1. **Critical:** Conditions that severely affect the primary functionality of the product and because of the business impact to the customer requires non-stop immediate corrective action regardless of time of day, or day of the week as viewed by a customer on discussion with the organization such as:
  - Product inoperability (total or partial outage),
  - A reduction in the capacity capability, that is, traffic/data handling capability, such that expected loads cannot be handled,
  - Any loss of emergency capability (for example, emergency 911 calls), or
  - Safety hazard or risk of security breach.
2. **Major:** Product is usable, but a condition exists that seriously degrades the product operation, maintenance, or administration, etc., and requires attention during pre-defined standard hours to resolve the situation.  
The urgency is less than in critical situations because of a less immediate or impending effect on product performance, customers, and the customer's operation and revenue such as:
  - Reduction in product's capacity (but still able to handle the expected load),
  - Any loss of administrative or maintenance visibility of the product and/or diagnostic capability,
  - Repeated degradation of an essential component or function, or
  - Degradation of the product's ability to provide any required notification of malfunction.
3. **Minor:** Other problems of a lesser severity than "critical" or "major" such as conditions that have little or no impairment on the function of the system.
4. **Minor, No Loss of Service:** Oracle severity beyond what is defined by TL 9000.



The numbered severity levels in the tables below correspond to these definitions of 1–Critical, 2–Major, 3–Minor, 4–Minor, No Loss of Service.

## 7.2 Resolved Bug List

The tables in this section list bugs resolved in the following builds:

- EAGLE 47.0.0.3.0-79.13.23
- EAGLE 47.0.0.2.0-79.13.21
- EAGLE 47.0.0.1.0-79.13.19
- EAGLE 47.0.0.0.0-79.13.0

The resolved bug table shows an impact statement for the severity 1 and 2 bugs as well as severity 3 bugs associated with an SR.



### Note:

Resolved bugs are sorted in ascending order by severity and then by bug number.

**Table 7-1 EAGLE Release 47.0.0.3.0-79.13.23 Resolved Bugs (August 2024)**

Bug Number	SR	Severity	Title	Customer Impact
36728711	Y	2	ACTIVE Partition of MASP becomes inaccessible after re-initializing MASP card	If this issue occurs, the Eagle database on the E5-MASP card will become inconsistent, report DMS errors for reading/writing Eagle database tables, and fail to connect to the IMT buses when the card is booted.
36790424	N	3	Flash is failing via Recovery console from R47.1 to R48	
36790547	N	3	Not able to flash OAM from Eagle Recovery console	
36794346	N	3	Update format/copy-disk code to create equal partitions of 2GB same as media builder	
36753891	N	4	Need to upgrade open source item LZMA to latest version 24.07	
36757265	N	4	Uplift ZLIB version to 1.3.1	
36779147	N	4	Uplift cJSON version to 1.7.18	

**Table 7-2 EAGLE Release 47.0.0.2.0-79.13.21 Resolved Bugs (November 2023)**

Bug Number	SR	Severity	Title	Customer Impact
35869028	N	3	Update init-flash command to flash multiple cards with BLMCAP flash	

Table 7-2 (Cont.) EAGLE Release 47.0.0.2.0-79.13.21 Resolved Bugs (November 2023)

Bug Number	SR	Severity	Title	Customer Impact
35869544	N	3	R47_MR: IP Routes for port C associations are getting lost after re-initializing the card	
35912720	N	3	R47_MR: Links & associations remain UP & Established respectively when network based static IP route is deleted	
35913809	N	3	R47_MR:Fastcopy links status displayed as OFFLINE   E5IS as inactive	

Table 7-3 EAGLE Release 47.0.0.1.0-79.13.19 Resolved Bugs (July 2023)

Bug Number	SR	Severity	Title	Customer Impact
33276643	Y	3	R47.0_ST: observing discards for mtp3 service in rept-stat-mfc on setup e1181001	<p>This is a rare issue. Traffic drop will be observed on the card when this issue is hit. The below command can be used to identify which card is discarding the traffic.</p> <pre>rept-stat- mfc:service=mtp3:mode =stats:sample=tot5m</pre> <p><b>Workaround:</b> Re-initialize the card to come out of stuck MFC/ICMM state.</p>
35146581	Y	3	Raise an alarm when there is MTP3 PDU discards occurring in the STP	<p>Currently there is no UAM to report when a LIM card is in MFC PDU discard. Hence, the customer would not know about a traffic impacting situation. The bug request is to raise an alarm when this condition exists so the customer will be aware of the traffic impact and react to the situation.</p>
35179036	Y	3	FTRA incorrect output for RTRV-GTA csv data	With one less delimiter, if OP CODE tag is missing, the customer engineering system will not correctly parse the csv file.
35179049	Y	3	Traceroute takes path via DEFROUTER even if IP-RTE entries are defined	None as workaround is to test connectivity to remote IP address using the PING command.

Table 7-3 (Cont.) EAGLE Release 47.0.0.1.0-79.13.19 Resolved Bugs (July 2023)

Bug Number	SR	Severity	Title	Customer Impact
35184831	Y	3	Boot loader update fails for EPM-B cards during upgrade phase 3	Cards must be flashed manually which can cause system upgrade maintenance window to be extended past the allowed time. <b>Workaround:</b> Flash each card manually.
35206695	Y	3	Raise an alarm for hung card in the system	If no alarm is generated by the system, the customer will not know that a card is in a hung state and not processing the traffic.
35230920	Y	3	BIP DATA INVALID error seen on some cards and chg-bip-rec doesn't work on some cards	The customer will respond and investigate a fault BIP alarm raised by the system. There will not be any operational impact to traffic or card operations.
35010532	Y	4	False Alarm raised on primary SCCP card Port B with EPAP connectivity	
35178917	Y	4	Decoding generic name from PIP when generic name tag(0xC7) is not present	
35203309	N	4	ZLIB UPDATE TO AT LEAST 1.2.13	

Table 7-4 EAGLE Release 47.0.0.0.0-79.13.0 Resolved Bugs (September 2022)

Bug Number	SR	Severity	Title	Customer Impact
32169138	N	2	R46.5.1.20_4PORT: few m3ua associations are not getting established on 4 port IPSP card	No traffic impact. Workaround: Do not use same combination of LPORT, RPORT and RHOST values when configuring associations on a 4 port IPSP card.
32662525	N	2	R47.0_LNP_FT: ELAP cards are getting stuck at phase 1 loading (98%)	ELAP cards won't load and won't come active. It will affect the traffic.
32820169	N	2	ACN Length Check to be removed for TOBR Processing	After upgrade to R46.9.1, packet failure was observed due to this check. While investigating it was found that the 7 bytes length may be true for MAP messages but not true for CAP/INAP/CS1+ or other protocols. ACNs are represented by TLV encoding and can have variable length.

Table 7-4 (Cont.) EAGLE Release 47.0.0.0-79.13.0 Resolved Bugs (September 2022)

Bug Number	SR	Severity	Title	Customer Impact
32965547	Y	2	SR: PCT and TIF interaction causes incorrect OPC in release message	TIF as a gateway screening action will generally occur first unless a system is using PCT. The order of operations caused a Release message to be sent with the incorrect OPC value which can lead to a trunk reset/outage.
33191698	Y	2	Customer uses the IP route table to define their subnet mask on their association destinations in a network range using a subnet mask of 255.255.255.224	Static IP routes in IP route table will load with incorrect subnet mask on applications, which may cause the SCTP association to fail to be established.
34069874	Y	2	E5-ENET-B cards flashed with VxWorks6.9 BLDC32 / SS7HC69 with APPL SS7ANSI / E1T1 become unresponsive	This will cause traffic loss on the unresponsive card until the card is re-seated.
31582751	Y	3	R46.9_ST: MOFSM MAP V2 message is not processing MBR.	MO-FSM fails MBR processing in these two cases: 1. For MAP version 1 & 2, the IMSI should not be decoded, but MBR is discarding the message with UIM 1145 with error cause as "IMSI decoding failed" even when the IMSI set is not applied. The correct behavior is that MBR should not decode the IMSI. 2. For MAP version 3, IMSI is an optional parameter. Again, MBR is discarding the message with UIM 1145 with error cause as "IMSI decoding failed" if no IMSI is present in the message or even when the IMSI is present but could not be decoded and the IMSI set is not applied.
32185846	N	3	R46.5.1.20_4PORT: Standby OAM goes to DB-DIFF state after Duplex mode is Established	
32405587	N	3	R46.9.1_ST: ATI-ACK and PSI-ACK getting decoded even if integer tag after result tag is missing	
32593813	Y	3	Extra comma "," listed in Daily LNP and SSP CSV Measurements files.	Customer unable to retrieve proper measurements reports.

Table 7-4 (Cont.) EAGLE Release 47.0.0.0-79.13.0 Resolved Bugs (September 2022)

Bug Number	SR	Severity	Title	Customer Impact
32605042	Y	3	SR 3-25047436511: OCEEMS 46.6.4 - problems with script-/schedule running.	Scheduled Management Scripts at E5-MS may take a long time to execute a list of Eagle commands. Workaround: Reduce the eagleidleTimeoutMins timer to 5 minutes.
32616926	N	3	Rel.46.9.1_ST : Obit "Module mcc_queue.c Line 1207" observed while inh/alw IMT bus.	
32697503	Y	3	SR: act- upgrade:action=createsets triggers infinite loop displaying MUX sets.	When using the chg-upgrade- config:threstype=set:svrsets= 2:limsets=4 command followed by act- upgrade:action=createsets, the command goes into a loop on the MUX cards and the active MASP has to be pulled to stop the loop.
32919608	Y	3	SR: ENT-SUBNETID: MASP B - Stdbby database update completion status unknown	When a user configures subnet ID table using ENT- SUBNETID command, the update is successful in the Active MASP but the standby MASP update fails. As a result, Standby MASP current DB reports DIFF LEVEL and DATABASE STATUS becomes NOT OK. No new configuration can be made until DATABASE STATUS is made OK.
32957996	N	3	CSV file for gttact is missing a value on all but the first record of output	
33113251	Y	3	SR: EAGLE TOBR-ITU TCAP Component not decoded correctly when "Component Portion Length" is coded in Indefinite form.	When TOBR processes messages received with TCAP "Component Portion Length" coded in Indefinite form and if there is any other MSU information encoded after TCAP component, it will assume there is one more component and will decode the Opcode as NONE causing incorrect GTT routing.

Table 7-4 (Cont.) EAGLE Release 47.0.0.0-79.13.0 Resolved Bugs (September 2022)

Bug Number	SR	Severity	Title	Customer Impact
33118768	Y	3	SR: EAGLE SCTP sends SCTP Restart Notification to local m3ua when a INIT is received on a established link which is an incorrect behaviour	When an INIT Chunk is received on an In-Service M3UA link, local SCTP reports RESTART notification to the M3UA layer. As a result, the local M3UA changes ASP status to ASP DOWN. Therefore the M3UA link at the EAGLE will be down whereas the link status at the peer remains UP. This results in the peer M3UA to continue sending traffic but the traffic will not be processed at the EAGLE.
33163786	N	3	Rel.47.0:False EROUTE System Capacity Exceeded alarm getting generated due to incorrect TPS display	
33957700	Y	3	SIP: Single digit DEFCC and Prefix lookup fails	Will not be able to determine if SIP number is ported if customer has Prefix set to 1 (NA SIP customers).
34143896	Y	3	Upgraded STP from 46.7.4 to 46.9.4, GTT IPSPG cards GTT DB level are incorrect	System will report incorrect GTT DB levels until one of workarounds are implemented. No impact to traffic and condition is only seen during software upgrade. Workarounds: <ol style="list-style-type: none"> <li>1. RADB update which will change GTT DB level. Like adding/deleting/ changing one GTA entry</li> <li>2. Initialize all ipspg cards using command "init-card:appl=ipspg"</li> </ol>
34226132	N	3	ServingNodeIndication not going in ATI request in PS domain(SFAPP Feature)	
34350455	N	3	R47.0_ST:SIP card boots with obit "restart.c" when phone context in SIP-NPP table is present without PFX value	
29549597	N	4	R46.8_FT:Incorrect Eagle version is shown in CSV files of UNIX and LINUX FTRA	
31646496	N	4	R46.9_ST: SFAPP traffic is being shown twice in rept-stat-sfapp if psi-ack\ati-ack is timed out.	

Table 7-4 (Cont.) EAGLE Release 47.0.0.0-79.13.0 Resolved Bugs (September 2022)

Bug Number	SR	Severity	Title	Customer Impact
31790069	N	4	EAGLE Changes for LNP greater than 504M.	
31882102	N	4	Adding New TBGTTLs options	
31918026	N	4	TBGTTLs (using ENHMTTP Key) not working as expected	
32227541	N	4	R46.7.6_ST_FTFA:Incorrect "MAXENTRIES" reported in SS-APPL CSVs	
32619150	N	4	Extend Eagle User Password Length up to 20 characters.	
32656652	Y	4	SR: BIP errors on cards not Alarming UAM 102 in Eagle	There is no operational impact to the customer.
32685765	N	4	Rel.46.9.1_ST:Dontcare is displayed instead of ipsg932 in UIM 1474.	
32700814	N	4	Removing BLSLC32, IPSPG and IPSPG32 GPLs.	
32944947	N	4	IMSI MAP Based Routing for IMEI_Check Messages	
33129601	N	4	Add procedure to activate LNP licensing beyond 504M with increment of 12M entries per part number.	
33149073	Y	4	OCEEMS doesn't clear FUSE PANEL alarms when it is cleared from EAGLE side	No impact to traffic or loss of service.
33372705	N	4	IN IDPR Consolidation	
33447475	Y	4	Add debug logs for MFC MTP3 Bug 33276643	Will not be able to collect debug logs if condition occurs before card reboot.
33507071	N	4	TOBR enhancement to perform "Operation Code Tag" based routing	
33517253	N	4	Send Severity1 Alarms from EAGLE to PIC	
33521991	N	4	ENUM requirements for TIF enhancements	
33669061	N	4	TIFGNBL enhancement for decoding PIP when generic name is not present	
33804710	N	4	ENUM card booting with pvdvmmsg.c on converting from 32bit to 64bit	
33845093	N	4	Support for Port 53 for ENUM	
33868436	N	4	Invalid_TCAPClassTag	
34036760	N	4	Add debug logs for card stuck issue observed on Vxworks6.9 on multiple GPLs	

Table 7-4 (Cont.) EAGLE Release 47.0.0.0-79.13.0 Resolved Bugs (September 2022)

Bug Number	SR	Severity	Title	Customer Impact
34071816	N	4	Support the 'notpresent' option for the opcodetag parameter in chg-sccp-msg command	
34097667	N	4	Increase SLIC SCCP throughput to 13.6K TPS with EPAP240M and EGMS features enabled.	
34098651	Y	4	Add missing parameters in debug variable for TBGTTLS Key generation.	No impact to customer traffic.
34374574	N	4	Update EEDB to use TPD 7.8.3.0.0_89.21.0	
34467088	N	4	Uplift cJSON version to 1_7_15	

## 7.3 Customer Known Bug List

The following table lists the known bugs and the associated Customer Impact Statements.

Table 7-5 EAGLE Release 47.0 Customer Known Bugs (August 2024)

Bug Number	SR	Severity	Title	Customer Impact
35217617	N	2	IPSG ENETB cards are randomly booting after upgrade to 47.0.0.0-79.13.0	E5-ENET-B cards could reboot or hang causing loss of traffic.  <b>Workaround:</b> Re-flash to VxWorks 6.4 IPSG GPL.
32962224	Y	2	SR: SEAS Forwarder Script causes loss of connectivity with older Eagle releases.	If customers have multiple STPs connected to the CCSMR via the SEAS Forwarder script, the original version of the script would not allow this to happen. Only one STP could be connected at a time, other STPs would lose connectivity.
25665463	N	3	Rel46.5_128con:IPSG SLIC128 M2PA may boot silently (without obit)	In the rare case when the card may boot due to a workQPanic event (Bug 25764195) the card will not produce an obit, and will boot silently. No customer impact as obit data is for Oracle personnel use.



Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)

Bug Number	SR	Severity	Title	Customer Impact
26421059	N	3	Rel46.6_CardObs-Support of SLAN measurements need to be removed	Some measurement command parameters and measurement registers related to the obsolete STP LAN feature are still present in the system. This may cause some minor confusion for operators. No operational impact.
26739329	N	3	HIPR2 - ALIGN LED does not turn AMBER when IMT BUS is inhibited.	The Alignment LED of a HIPR2 should change to and remain AMBER while the bus is inhibited as an effective aid for the operator to identify which bus is inhibited. However occasionally, when the IMT bus is inhibited, a HIPR2 card may keep its Alignment LED colored GREEN. As a workaround, the bus can be allowed (ALW-IMT) and inhibited (INH-IMT) again to change the Alignment LED to AMBER.
26763948	N	3	R46.6_12k:sev1 Card 1113 Module scm_tps.c Line 3895 Class 01d0 Obs on OAM	rept-stat- iptps:history=yes command may not print the output if uithrottle (stpopts parameter) is set to 9. System Default value of uithrottle is 0. <b>Workaround:</b> If uithrottle (stpopts parameter) is currently set to 9, then set it to a value less than 9.
27065051	N	3	R46.6_ST:GTT traffic is getting dropped on IPSEG32 card in congestion scenario	If MAXSLKTPS is reduced so that congestion is induced with current traffic on the link, the amount of traffic that will be passed will not be maxslktps but something significantly less or no traffic at all. Workaround: Change SLKTPS rate back to original value or reduce traffic to under maxslktps.

**Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)**

Bug Number	SR	Severity	Title	Customer Impact
27703349	N	3	R46.6_ST:E1T1 link test failed in upg ph 2 during Upgrade to 46.6.0.0-73.18.0	One or more E1T1 TDM signaling links may momentarily drop out (5 to 30 seconds) during Phase 2 of Upgrade. The event occurs only once per link, links recover and normal operations continue. Mate STP should be able to handle traffic if this issue causes a linkset to go down for a brief period during the upgrade maintenance window.
28185911	N	3	LIM/SCCP card(s) denied SFAPP alm with new SFR MFC servc needs clarification	Operator needs to run the <code>rept-stat-mfc</code> commands for SFAPP and SFR services or look at the measurements to determine the service that is causing the alarm.
28253971	N	3	Rel.46.7_DB_Exp:Sev1 rmtpl_utl.c with lines 349 and 384 obsrld during upgrade	These severity 1 troubles may appear at end of the full DB download after a cold restart of a SCCP64 card. There is no known impact.
28518265	N	3	R46.7_UC1enh:UIM not getting generated for invalid ACN scenario in ATI ACK msg	No UIM will be generated for invalid ACN in ATI ACK for Rt-on-GT scenario. No other impact on any operation.
28964892	N	3	R46.7_ST:DEIR and ENUM reports are coming blank on Integrated Meas Platform	An EAGLE with no SCCP cards configured may generate blank measurement reports related to the ENUM and DEIR features.
28995862	Y	3	Rel.46.7_ST:Unexpected Sev1's uias_cnl.c Line 243 and vlr_mgr.c Line 1460 observed on OAM card	No known impact other than the display of the severity 1 trouble.
29197515	N	3	R46.5.1.10_FT: UAM 115 & 116 and UIM 118 & 119 are not getting generated with tpsalmtype=maxslktps for SLIC card	TPS alarms do not show when the card running the IPSP is a SLIC and traffic crosses its threshold value when tpsalmtype is set to MAXSLKTPS. TPS alarms are generated correctly when tpsalmtype is set to RSVDSLKTPS.
29355709	Y	3	R46.6.3: SLIC V2 SCCP EPAP/ELAP card boots on act/dact-ip-lnk:port=a	When the debug command <code>act-ip-link</code> and/or <code>dact-ip-link</code> is issued, the SLIC card may boot.

Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)

Bug Number	SR	Severity	Title	Customer Impact
29378816	N	3	R46.6.3: LINK LED for ports B & C are not working correctly if UDP\TCP connection is not configured for SIP\ENUM.	The LINK LEDs on ports B & C are illuminated green even when no UDP/TCP connections are provisioned for either port.
29378828	N	3	R46.6.3: LINK LED for PORT D is not working correctly for SLIC DEIR card	The colors of the LED (green/red) for the SLIC card, port D, when running the DEIR application are reversed from what they should be: red when it should be green, and green when it should be red.
29539191	N	3	IDPR_Enh:Module mdb_srvs.c Line 369 observed on LIM card while executing ent-srvsel command with ANSI domain.	When SRVSEL entries of type ANSI and ITUN24 are configured with the same values of GTI, TT, NP, NAI, and SSN, cards may observe UAM 0034 "Card database is inconsistent" and report "Module mdb_srvs.c" severity 1 trouble.
29873349	N	3	copy-disk command failed to copy files from active to standby causing sev 1 dmshc_utl.c Line 1240 DMS Error	The copy-disk command may fail to transfer files as expected. <b>Workaround:</b> Retry the operations and the copy eventually succeeds at the second or third attempt.
30013173	N	3	R46.8 : PFXSTRIP value for SIP is not getting changed from No to Yes through chg-csl command.	The chg-csl command for the SIP feature to change the value of the PFXSTRIP parameter from NO back to YES does not change the value. After the "chg-csl" command is executed, the "rtv-csl" command will display the PFXSTRIP value as NO and call processing works as per "PFXSTRIP=NO".
30431027	N	3	R46.7:During upgrade multiple LIM cards did not return to IS-NR in less than 8 minutes	Incremental Upgrade will fail since the LIM cards failed to convert within the stipulated time.
31098175	N	3	The FTP command with -a option is broken	FTP with the -a option does not work. There is no impact on traffic. Workaround: Run two commands instead: Use FTP without the -a option, then use the copy-tbl command.

Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)

Bug Number	SR	Severity	Title	Customer Impact
31186470	N	3	46.9:- clc_mgr.c, clc_utl.c and scm_ldr.c severity 1 are being observed on Eagle.	When a SLIC is flashed with the BLSLC64 GPL and the card is provisioned as IPS, the OAM attempts to load the IPSHC GPL to the card. The proper response of the OAM should be notification that the card is flashed with an incompatible GPL, and not attempt to load the IPSHC GPL. If the card had been flashed with the BLSL932 GPL, the OAM would have loaded the correct GPL (IPSHC69) to the card, and the clc_mgr.c & clc_utl.c troubles would not occur.
31492022	N	3	Rel.46.9:Observed Severity 1 glldr_oamhc.c and gws_shr.c on standby OAM card while booting the EAGLE (INIT-SYS)	None
31502030	N	3	46.9_CAT2_FT :- "UIM 1512 CAT2 IPSM to OAM Sync Completed" not displayed when Eagle is in simplex mode.	In Simplex mode, the subject UIM is not displayed during CAT2 synchronization. Synchronization completes successfully. No impact to customer operation in Duplex mode.
31523686	N	3	R46.9_ST_Upg: Sev 1 "sldmgr2.c" and Obits "adl_mgr.c" & "pmtc_mgr.c" were observed in phase 3 during major upgrade	With ample load on the IMT bus during upgrade, a few cards may time-out waiting for their databases to be received from the OAM, and then boot one time. The cards typically recover normally after that and become IS-NR after successfully reloading their databases on the second try. The impact is only the additional booting of the cards - there is no impact to the IMT bus. There is no impact on functionality after upgrade completes.
31647295	N	3	R46.9_ST: Observing Module mfctmutl.c Line 1334 Class 01c3 Severity 1 on IPSCG cards	A few ATI ack messages do not reach the SFAPP card when the card is congested under maximum load. The corresponding UC #1, #2, and #3 messages will not be applied, but the original message will still be processed.

Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)

Bug Number	SR	Severity	Title	Customer Impact
31858903	N	3	Rel.46.9.1_ST:Severity 1 "md_os.c Line 531 Class 0001" observed while major upgrade	During upgrade phase 3, when IPSP card initializes it may generate "md_os.c Line 531 Class 0001" severity 1 message in rare circumstances. There is no impact to the system.
31948123	N	3	R46.5.1.20_4PORT: Traffic is getting dropped without congestion on M2PA/M3UA link	If traffic on the 4 port IPSP card is going above the card capacity (if allowed by sum of MAXSLKTPS of all links on the card which exceeds card capacity), card may silently discard the excess traffic above the card capacity of 12K TPS. Workaround: Sum of MAXSLKTPS of all links on 4-port IPSP card should not exceed 12K TPS. Configure MAXSLKTPS same as RSVDSLKTPS whenever there is no specific reason for configuring MAXSLKTPS higher than RSVDSLKTPS.
31959811	N	3	R46.5.1.20_4PORT: Dynamic DB goes into inconsistent state after congestion is cleared on 4 Port	The DDB Inconsistent alarm will be observed when links get congested followed by the route failure to a non-adjacent node. There is no traffic impact and DDB alarm will be cleared in the next DDB audit. <b>Workaround:</b> The aud-data:type=ddb command can be executed if the alarm needs to be cleared immediately due to this particular issue.
32001102	N	3	Rel.46.5.1.20_FT:upg_drms.c and mdb_mtls.c severity 1 observed while performing major upgrade from eagle release 46.5.1.10.0-70.51.0 to 46.5.1.20.0-77.2.0	No traffic impact.
32028844	N	3	Rel.46.5.1.20_FT:OA&M IP Security feature risk alarm not observed after major upgrade from eagle release 46.5.1.10.0-70.51.0 to 46.5.1.20.0-77.2.0	No traffic impact.

**Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)**

Bug Number	SR	Severity	Title	Customer Impact
32056273	N	3	Rel.46.5.1.20_FT:DB-DIFF observed on newly provisioned SFAPP card in LEARN/TEST mode	No traffic impact. There are two workarounds: 1. Execute the "rtrv-vlr-prof" or rtrv-vlr-roaming" command after the sync before executing the commands to configure a new SFAPP card. 2. If the new SFAPP card reports DB-DIFF then re-initialize the SFAPP card. Re-initialization will resolve the DB-DIFF.
32180217	N	3	R46.5.1.20_4PORT:Severity 1 "radbvdcn.c" is observed on 4 Port SLIC IPSC	No traffic impact.
32215034	Y	3	DB Audit running for more time in 46.9.0 due to addition of CAT2 feature	Customers need to execute a system backup post upgrade and want to do this during the upgrade maintenance window. The increased DB audit time delays normal system administration up to 90 minutes.
32523616	N	3	R47.0_SCTP_FT: "ddl_mgr.c Line 3215" observed on SS7HC69 card during Upgrade phase 3	There is an Alarm "DDL Unstable" and Severity 1 from ddl_mgr.c on SS7HC69 card for a small duration during Upgrade Phase 3 due to watchdog timer expiry, which then starts DDL auto recovery and corrects itself.
32599847	N	3	Rel.46.9.1_ST:INIT-SYS causes DDB INCONSISTENT issue on IPSC/E1T1 card	INIT-SYS is not a normal operational command and is only used in emergency situations. Normally a customer would not attempt to initialize cards by application type. No impact unless cards could not be initialized and DDB normalized for each individual card if customer executed init-sys.
32622846	N	3	Rel46.9.1_ST: ATM links are taking around 20 mins to come IS-NR after initialization.	There is no impact, just a delay, but the links come up in service. However, this could impact future software upgrades if customer has a large quantity of ATM cards/links. The upgrade may not complete during a standard maintenance window.
32622893	N	3	Rel.46.9.1_ST:Obit "Module restart.c Line 1590" observed on E1T1 card while inh/alw IMT bus	No Operational Impact on Eagle STP.

Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)

Bug Number	SR	Severity	Title	Customer Impact
32658642	N	3	R47.0_ST: Individual link downtime due to upgrade is more than 4 minutes.	No known impact.
32669927	N	3	MASP goes isolated after FTP XFER is done to copy a gpl to OAM	No customer impact as customer would not be using the below command - pass:loc=xxxx:shellcmd="g_ft pxfer_debug=1" But rather the copy-gpl command.
33074117	N	3	R47.0 - rept-stat-gpl:gpl=blmcap doesn't show any data	No operational impact to Eagle STP.
33156426	N	3	R47.0_ST: chg-assoc is allowing configuration of assoc to exceed Assoc Buffer Space from Available Buffer Space	chg-assoc command allows configuration of assoc to exceed association buffer size from available buffer space on the card. This may result in card getting into auto-inhibited state. However, ent-assoc command has a check to verify the available buffer space when association is created.
33252307	N	3	R47.0_ST: M3UA link is catering traffic more than its configured maxslktps if maxslktps is less than 200	The M3UA links will cater more traffic if its configured MAXSLKTPS is less than 200. <b>Workaround:</b> Do not configure MAXSLKTPS less than 200 for M3UA links.
33444278	N	3	BIP DATA INVALID error seen on some cards and chg-bip-rec doesnt work on some cards	No traffic impact. Workaround: BIP Alarm on 32 bit cards can be cleared using the below command chg-bip-rec:init=yes:loc=xxxx:data="xxx" Note: Service request needs to be created by customer to get the "data" value in the above command.
34144341	N	3	R47.0_ENUM:Obit "Module mcc_queue.c Line 1207"/ "restart.c Line 1608 observed while inh-alw Enum/SIP card.	No Traffic Impact.
34149417	N	3	R47.0_Eng79_Defensics: Observing restart.c OBIT from Line 1608 on SLIC IPSP69 card on executing TC 66952 from sctp server test suite  Observed OBIT ath_vxw_mgr. on enetb ipsp69	IPSP69 card may boot when incomplete message is received in the incoming traffic.

**Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)**

Bug Number	SR	Severity	Title	Customer Impact
34263793	N	3	ServingNodeIndication not present in ATI request generated from SFAPP card	ServingNodeIndication field will not be present in ATI request generated by EAGLE. Peer node expecting "ServingNodeIndication" in the ATI request will discard the ATI request.
34432889	N	3	R47.0_ST:mfcfctmr.c sev1 , restart.c and ath_vxw.c obits observed during major upgrade	The target card may take slightly longer time to return to In-Service as flashing will be reattempted on the card automatically by the upgrade script. The severity 1 mfcfctmr.c will stop once the upgrade is completed.
34433086	N	3	R47.0_Eng79_ST: Recovery C : Observed Sev1 scm_utl3.c on E5OAMs, and OBIT ath_vxw_mgr. on SLIC MCPM and ENETB IPSPG cards	Customer impact is minimal as occurrence is during software upgrade.
34459022	N	3	R47.0_Eng79_ST: USB is becoming inaccessible on executing chg-tbl command with action=reset for disk=usb/remove	No Traffic Impact. The thumb drive needs to be rebuilt if the chg-tbl command with action=reset is issued to the thumb drive, i.e., disk=remove or disk=usb. This is a rarely used command and should not be executed by the customer without advice from Oracle Support. The EAGLE Commands User's Guide captures "Caution: Before entering the chg-tbl command, contact My Oracle Support."
34478849	N	3	R47.0_Eng79_ST: Recovery C : Observed Sev1s scm_mcp.c Line 459, meau.c Line 2537 and meau.c Line 2233 once	Severity 1 troubles "Module scm_mcp.c" and "Module meau.c" will be observed only during the rollback to the source release from EAGLE 47.0 and will stop once the rollback of Measurement network cards i.e., MCPM cards, are completed. No traffic impact.
34527548	N	3	R47.0_ST: Observed severity 1, im_tar.c Line 2315 Class 01c3 and fim_mgr.c Line 2106 Class 01c3 on SLIC IPSM card during incremental upgrade phase 2.	No impact to customer traffic or card flash operations.



Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)

Bug Number	SR	Severity	Title	Customer Impact
34528313	N	3	R47.0_ST: Observed severity 1, slog_utl.c Line 644 Class 01c7 during incremental upgrade phase 3.	No impact to customer traffic.
34537451	N	3	R47.0_Eng79_ST: Recovery C: observed Severity1 gdl_load.c on 2 sccp cards and src.c on SFAPP cards	No loss of service or impact to customer traffic.
26938777	N	4	R46.6_E1T1_SLIC_Enh: Unable to provision 3rd HSL on empty card location .	A SLIC card needs be inserted in the slot before more than 2 HSLs can be provisioned for the E1T1 location.
29408928	N	4	R46.6.3_FT: Incorrect Eagle version is shown in UNIX and LINUX FTRA GUI when CSV files are created and FTRA is completed	FTRA may display incorrect EAGLE release version on the GUI when providing information about generated CSV files upon completion. However, the version mentioned inside the generated CSV files is correct.
30212669	N	4	Observed pmtc_mgr.c Line 942 during Phase 3 of upgrade	Software upgrade process - Observed pmtc_mgr.c Line 942 during Phase 3 of upgrade
30914993	N	4	DRMS Init duration has doubled	The time to initialize DRMS has increased by 3 minutes, which means that an OAM will take 3 more minutes to come IS-NR, or go to duplex mode.
31557228	N	4	R46.9_ST: Inconsistent output for rept-stat-sccp:data=gtt	The rept-stat-sccp:data=gtt command shows inconsistent output when the SCCP GTT card is/is not configured and the IPSG GTT card is configured. MTPRTD stats are present or missing in the output. All all GTT stats are present or only IPSG GTT stats are present in the output. There is no traffic loss.
31567725	N	4	46.9 Visualization - LEDs for port C on SCCP and SFAPP cards do not match requirement	The link LED of port C remains off on SFAPP application cards, even with active connections. The link LED of port C remains GREEN even with no active connections, when it should be RED on SCCP application cards.

Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)

Bug Number	SR	Severity	Title	Customer Impact
31646563	N	4	R46.9_ST: oamhc_init.c Severity 1 with lines 3018 and 3021 is being observed on active OAM	There is no loss of service. Debug output will not be available.
31720285	N	4	Eagle 46.9 ST upgrade phase 0 Module scm_uam.c Line 6777 Class 01b2 Severity 1 generated every minute	No known impact.
31970510	N	4	Remove SLAN/STPLAN Instances	No impact.
32012916	N	4	Rel.46.9.1_ST: Derived TPS not displayed correctly for 128 links	The "rept-stat-iptps" command with tpscost parameter as yes may report incorrect derived TPS. There is no traffic impact or functionality loss due to this issue.
32825262	N	4	R47.0_ST: ent-trace is displaying wrong info for ATI message if imei MBR set is applied	There is no operational impact to Eagle STP.
33629173	N	4	R46.9.4_ST: observed OBIT Module ath_vxw_mgr. during flashing of E1T1/ATM EPMB card and Sev1 fst_mgr.c Line 3351 on Active E5OAM during phase 3	No impact to the system, upgrade completed successfully and the cards reporting the OBIT came back into service with no impacts seen to the card functionality and no traffic impact was seen either.
34155082	N	4	R47.0_Eng79_Defensics: continuously observing tk_pool_buff Severity 1 from Line 3543 on ENETB IPSPG69 card even after completing sctp server test suite.	No impact to customer traffic.
34307478	N	4	R47.0_ST:Module ath_ipscp.c Line 1901 Class 01b1 Severity 1 observed while GTT enabled IPSPG cards are initialised	Severity 1 ath_ipscp.c is observed when IPSPG+GTT card is rebooted. No traffic/system Impact.
34517636	N	4	Excess acknowledge delay observed on SLIC M2PA above 32 associations	Link failures will impact customer traffic. Problem is only seen when traffic exceeds 9300TU.
34517640	N	4	IPSPG ENETB card with 32 links not processing traffic of 9500 TU	IPSPG card is not supporting advertised TPS and will impact links provisioned on those cards with congestion, excess re-transmits, and link failures. Impact to customer traffic. Problem is only seen when traffic exceeds 9100TU.

**Table 7-5 (Cont.) EAGLE Release 47.0 Customer Known Bugs (August 2024)**

Bug Number	SR	Severity	Title	Customer Impact
34527242	N	4	rept-stat-iptps is showing incorrect output for IP6SG69 ENETB card and SLIC card	rept-stat-iptps output will not display correct TPS values which can impact troubleshooting. No impact on customer traffic.

# 8

## Oracle References and Services

This chapter describes how to obtain help, where to find related documentation, and provides other general information.

### 8.1 My Oracle Support (MOS)

**My Oracle Support (MOS)** is your initial point of contact for any of the following requirements:

- **Product Support:**  
The generic product related information and resolution of product related queries.
- **Critical Situations**  
A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:
  - A total system failure that results in loss of all transaction processing capability
  - Significant reduction in system capacity or traffic handling capability
  - Loss of the system's ability to perform automatic system reconfiguration
  - Inability to restart a processor or the system
  - Corruption of system databases that requires service affecting corrective actions
  - Loss of access for maintenance or recovery operations
  - Loss of the system ability to provide any required critical or major trouble notificationAny other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.
- **Training Need**  
Oracle University offers training for service providers and enterprises.

My Oracle Support (<https://support.oracle.com>) is your initial point of contact for all product support and training needs. A representative at Customer Access Support can assist you with My Oracle Support registration.

Call the Customer Access Support main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at <http://www.oracle.com/us/support/contact/index.html>. When calling, make the selections in the sequence shown below on the Support telephone menu:

- For Technical issues such as creating a new Service Request (SR), select **1**.
- For Non-technical issues such as registration or assistance with My Oracle Support, select **2**.
- For Hardware, Networking and Solaris Operating System Support, select **3**.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

## 8.2 Product Support

The information in this document addresses the product releases that are currently covered under Premier Support and also some product releases that are no longer covered under Premier Support. Refer to [Lifetime Support for your Oracle Application Unlimited Products](#) on the Applications Unlimited Lifetime Support web page for support information.

Refer to the Release Notices of each product release for information related to supported upgrade paths.

## 8.3 Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) [Oracle Help Center \(OHC\)](#) site. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at <http://www.adobe.com>.

1. Access [OHC](#).
2. Click **Industries> Communications**.  
The Communications Documentation page appears.
3. Under **Signalling and Policy** header, select **EAGLE**.  
The list of entire documentation set for EAGLE Product Line and releases appears.
4. Click on your product and then the release number.  
A list of the entire documentation set for the selected product and release appears.
5. To download a file to your location, right-click the PDF link, click **Save Target As** (or similar command based on your browser), and save to a local folder.

## 8.4 Locate Product Release Software on the Oracle Software Delivery Cloud Site

Oracle Communications software is available for electronic download at the [Oracle Software Delivery Cloud \(OSDC\)](#) site. Only authorized customers with a valid password may download software from the site.

For directions on downloading the software and other information about using this site, click FAQ on the top right corner.