

# Oracle® Fusion Middleware

## Release Notes for Oracle Traffic Director



12c (12.2.1.4.0)

E96374-04

November 2019

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

ORACLE®

Oracle Fusion Middleware Release Notes for Oracle Traffic Director, 12c (12.2.1.4.0)

E96374-04

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# Preface

Oracle Traffic Director 12.2.1.4.0 release is a patch set release. No new features have been introduced in this release. The Oracle Traffic Director 12c release notes introduces you to the new and changed features of Oracle Traffic Director from 12.2.1.x.0 releases and provides pointers to additional information.

## Audience

This document is intended for users of Oracle Traffic Director 12c.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

### Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

## Related Documents

For more information, see the following resources:

- Oracle Traffic Director 12c Documentation Library . This contains all documentation for all Oracle Traffic Director 12c products.
- [Oracle Technology Network](#). This site contains additional documentation that is not included as part of the documentation libraries.

## Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

<b>Convention</b>	<b>Meaning</b>
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

# 1

## Introduction

This chapter introduces the Release Notes for Oracle Traffic Director. It includes the following sections:

### Note:

As of 12.2.1.4.0, Oracle Traffic Director is deprecated. In the future, use Oracle HTTP Server or Kubernetes Load Balancer for equivalent functionality.

### Topics

- [Latest Release Information](#)
- [Purpose of this Document](#)
- [System Requirements and Specifications](#)
- [Certification Information](#)
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- [Product Documentation](#)
- [Oracle Support](#)

## Latest Release Information

This document is accurate at the time of publication. Oracle will update the release notes periodically after the software release. You can access the latest information and additions to these release notes on the Oracle Technology Network at: <http://www.oracle.com/technetwork/indexes/documentation/index.html>.

## Purpose of this Document

This document contains information related to the issues and release-specific user information associated with Oracle Traffic Director.

Oracle recommends you review its contents before installing, or working with the product.

## System Requirements and Specifications

Oracle Traffic Director installation and configuration do not complete successfully unless the hardware and software pre-requisite requirements are met before installation. See *Installing Oracle Traffic Director*.

## Certification Information

To see versions of platforms and related software for which Oracle Traffic Director is certified and supported, go to <http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>.

## Licensing Information

For the latest information on Oracle Fusion Middleware Licensing, see Licensing Information User Manual.

## Product Documentation

For complete documentation on Oracle Traffic Director, see <http://docs.oracle.com/en/middleware/>.

## Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support at <https://support.oracle.com>

# 2

## What's New in This Release?

This chapter describes the features and improvements in Oracle Traffic Director. The following topics introduce the new and changed features of Oracle Traffic Director and other significant changes in the guides, and provides pointers to additional information.

### Note:

As of 12.2.1.4.0, Oracle Traffic Director is deprecated. In the future, use Oracle HTTP Server, Microsoft IIS Web Server, or Apache HTTP Server plug-ins, or a native Kubernetes load balancer, such as Traefik for equivalent functionality.

### Topics

- [New Features](#)
- [Deprecated Features](#)
- [Removed Features](#)

## New Features

The following are the new features in Oracle Traffic Director 12.2.1.x.0. See *Oracle Traffic Director Administrator's Guide*.

- Oracle Traffic Director supports sending notifications to one or more HTTP endpoints for the following two events:
  - Origin server status change event
  - Request limit exceeded eventSee Events Notifications.
- Support for enabling FTP configuration for TCP proxies, see Managing TCP Proxies.
- Support for configuring dedicated Status Listeners to monitor status of Oracle Traffic Director instances, see Configuring Status Listener.
- Support for configuring active-active high availability, see Configuring Oracle Traffic Director for High Availability.
- New **chghost** utility

A new tool, chghost is now available. The chghost utility allows the user to update the following information in the Fusion Middleware Configuration Files.

  - domain host name change
  - database host change



- cloning

See About the chghost Utility in *Administering Oracle Fusion Middleware*.

- Oracle Traffic Director 12.2.1.4.0 installation includes an update to the database client software installed with Fusion Middleware. The database patch set included is 12.1.0.2.190716. If you execute the command `opatch lsinventory`, the patch identification number for this update will appear as 29494060 on Linux/Unix and 30220086 on Microsoft Windows.
- You can use Oracle Traffic Director through Oracle VM templates. There are two VM templates for Oracle Traffic Director 12.2.1.4.0:
  - Oracle Fusion Middleware 12c (12.2.1.4.0) Traffic Director (Standalone)
  - Oracle Fusion Middleware 12c (12.2.1.4.0) Traffic Director (Collocated)

To use Oracle Traffic Director through Oracle VM templates, you must download either of the templates from Oracle Software Delivery Cloud, import it into Oracle VM Manager, and then deploy the template as a virtual machine. These templates provide a pre-installed Oracle Home with Oracle Traffic Director (and Oracle WebLogic Server in case of collocated template). These template do not include a domain. You can use these templates to create and configure standalone or collocated domains by following the instructions described in Setting up an Administration Domain in *Administering Oracle Traffic Director*.

For more information about Oracle VM templates, see [Oracle VM Virtual Appliances](#).

## Deprecated Features

The following functionality and components are deprecated in Oracle Traffic Director 12.2.1.4.0:

- TLS 1.0 and TLS 1.1 are disabled by default. These protocols are now deprecated.
- The following ciphers are disabled by default and are now deprecated:
  - TLS\_ECDHE\_RSA\_WITH\_AES\_128\_CBC\_SHA
  - TLS\_ECDHE\_ECDSA\_WITH\_AES\_128\_CBC\_SHA
  - TLS\_ECDHE\_RSA\_WITH\_AES\_256\_CBC\_SHA
  - TLS\_ECDHE\_ECDSA\_WITH\_AES\_256\_CBC\_SHA
  - TLS\_RSA\_WITH\_AES\_256\_CBC\_SHA
  - TLS\_ECDHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA
  - TLS\_ECDHE\_ECDSA\_WITH\_3DES\_EDE\_CBC\_SHA
  - SSL\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA

## Removed Features

The following features deprecated in previous versions of Oracle Traffic Director are removed from Oracle Traffic Director 12.2.1.3.0. See *Oracle Traffic Director Administrator's Guide*.

- SSLv3 is no longer supported.
- The following RC4 ciphers are no longer supported:
  - TLS\_ECDHE\_ECDSA\_WITH\_RC4\_128\_SHA
  - TLS\_ECDHE\_RSA\_WITH\_RC4\_128\_SHA
  - SSL\_RSA\_WITH\_RC4\_128\_SHA

- The Oracle T2P utility is no longer supported.

The Oracle Fusion Middleware T2P utility allows you to move an Oracle Fusion Middleware environment from test to production (T2P) with customization specific to the production environment.

# 3

## Issues and Workarounds

This chapter describes the issues associated with Oracle Traffic Director.

### Note:

As of 12.2.1.4.0, Oracle Traffic Director is deprecated. In the future, use Oracle HTTP Server or Kubernetes Load Balancer for equivalent functionality.

### Topics

- [Restart Active-Active Failover Node After Enabling FTP on TCP Listener](#)
- [Creation of active-active failover group through Enterprise Manager not supported](#)
- [Disable Session Caching Before Resuming SSL Connection](#)
- [Warnings Appear in Oracle Traffic Director Node Manager Log on Solaris on SPARC \(64-bit\)](#)
- [Active-active requests fail when they originate from machines configured as failover group](#)
- [The Option to Select OTD Disappears in the System Components Window](#)

## Restart Active-Active Failover Node After Enabling FTP on TCP Listener

### Issue

Impacted Platforms: Generic

In an active-active failover enabled configuration, if you create an FTP-enabled TCP listener or enable the FTP for an existing TCP listener, then this new/modified configuration will not be part of the running failover until you stop and start the failover on all the nodes. If failover is not restarted, then the incoming traffic is not routed through the LVS and will not be load balanced. Instead, it will be directly served by OTD where VIP is plumbed.

### Workaround

No workaround available.

## Creation of active-active failover group through Enterprise Manager not supported

### Issue

Impacted Platforms: Generic

There is no option to create/manage active-active failover groups using Enterprise Manager. Active-active failover groups must be created/managed using WLST commands.

### Workaround

No workaround available.

## Disable Session Caching Before Resuming SSL Connection

### Issue

Impacted Platforms: Generic

If client authentication is enabled on an SSL listener, there is an issue in retrieving the client certificate chain during session resumption. This may cause a subsequent credential check to fail in some cases.

### Workaround

Disable the SSL session cache.

## Warnings Appear in Oracle Traffic Director Node Manager Log on Solaris on SPARC (64-bit)

### Issue

Impacted Platforms: Solaris

After installing Oracle Traffic Director on Solaris on SPARC (64-bit), you might see warning messages similar to the following examples in the Node Manager log when starting the Oracle Traffic Director Node Manager:

```
WARNING: Key store file keystores.xml integrity check failed.  
Location: /home/oracle/config/domains/OTDDomain/config/fmwconfig/ Jul 19,  
2016 10:44:36 PM  
oracle.security.jps.internal.keystore.file.FileKeyStoreManager openKeyStore
```

```
WARNING: Opening of file based keystore failed.  
Reason : oracle.security.jps.service.keystore.KeyStoreServiceException:
```

```
JPS-06502: Failed to read keystore.  
Reason : javax.xml.bind.UnmarshalException
```

The first warning is a security warning, and the second warning is because of file synchronization issues with the keystores.xml file.

#### **Workaround**

No workaround available. There is no impact on OTD functionality. You can ignore these warnings.

## Active-active requests fail when they originate from machines configured as failover group

#### **Issue**

Impacted Platforms: Generic

If an active-active failover group is configured for a VIP on Oracle Traffic Director, and the requests to VIP originates from one of the machines where the failover group is configured, then the requests fail.

#### **Workaround**

Send the requests from an external machine which is not a part of the failover group.

## The Option to Select OTD Disappears in the System Components Window

#### **Issue**

While creating a managed domain using Full JRF template, the option to select OTD from the **Component Type** drop-down in the **System Components** window disappears when you add a new system component.

#### **Workaround**

Use the Oracle Traffic Director custom WLST commands or Fusion Middleware Control to create Oracle Traffic Director configurations/instances. Do not use the Fusion Middleware Configuration Wizard to create Oracle Traffic Director instances.