

Oracle 全系产品 2023 年 10 月关键 补丁更新通告

■ 通告编号 NS-2023-0043

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■ 漏洞危害 此次补丁更新修复了 387 个不同程度的漏洞，涉及多个常用产品。

■ TAG Oracle、关键补丁更新、Weblogic



一. 概述

2023 年 10 月 18 日,绿盟科技 CERT 监测发现 Oracle 官方发布了 10 月重要补丁更新公告 CPU (Critical Patch Update), 此次共修复了 387 个不同程度的漏洞,此次安全更新涉及 Oracle WebLogic Server、Oracle MySQL、Oracle Financial Services Applications、Oracle Enterprise Manager、Oracle Retail Applications 等多个常用产品。Oracle 强烈建议客户尽快应用关键补丁更新修复程序,对漏洞进行修复。

参考链接:

<https://www.oracle.com/security-alerts/cpuoct2023.html>

二. 重点漏洞概述

根据产品流行度和漏洞重要性筛选出此次更新中包含影响较大的漏洞,请相关用户重点关注:

Oracle WebLogic Server 多个严重漏洞:

本次安全更新修复了 Oracle WebLogic Server 存在的多个漏洞,未经身份验证的远程攻击者通过 T3、IIOP 协议发送恶意请求进行访问,成功利用该漏洞后可导致接管 Oracle WebLogic Server 权限。

CVE-2023-22069

CVE-2023-22072

CVE-2023-22089

CVE-2023-22101

Oracle MySQL 多个漏洞:

此次安全更新针对 Oracle MySQL 发布了 37 个安全补丁,其中 9 个漏洞在未经用户身份验证的情况下远程进行利用,即无需用户凭据即可通过网络利用。高危漏洞编号如下:

CVE-2023-34034

CVE-2022-42898

CVE-2023-22102

Oracle Financial Services Applications 多个漏洞:

此次安全更新针对 Oracle Financial Services Applications 发布了 103 个安全补丁。其中的 49 个漏洞在未经用户身份验证的情况下即可远程进行利用。高危漏洞编号如下:

CVE-2023-22946

CVE-2022-1471

CVE-2023-20873

Oracle Communications 多个漏洞:

此次安全更新针对 Oracle Communications 发布了 91 个安全补丁，其中的 60 个漏洞在未经用户身份验证的情况下即可远程进行利用。高危漏洞编号如下:

CVE-2023-34034

CVE-2023-38408

CVE-2023-3824

CVE-2023-38408

Oracle Communications Applications 多个漏洞:

此次安全更新针对 Oracle Communications Applications 发布了 9 个安全补丁。其中的 4 个漏洞在未经用户身份验证的情况下即可远程进行利用。高危漏洞如下:

CVE-2022-42920

CVE-2023-34981

Oracle Enterprise Manager 多个漏洞:

此次安全更新针对 Oracle Enterprise Manager 发布了 5 个安全补丁。其中暂无漏洞在未经用户身份验证的情况下即可远程进行利用。高危漏洞编号如下:

CVE-2023-23914

Oracle Retail Applications 多个漏洞:

此次安全更新针对 Oracle Retail Applications 发布了 15 个安全补丁。其中有 9 个漏洞在未经用户身份验证的情况下即可远程进行利用。高危漏洞编号如下:

CVE-2023-39017

Oracle 官方 10 月关键补丁更新漏洞总结如下:

产品	漏洞个数	未授权远程利用	最高 CVSS 评
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		的个数	分
Oracle Database Products Risk Matrices	10	2	6.5
Oracle Database Server	10	2	6.5
Oracle Big Data Spatial and Graph	1	1	6.5
Oracle Essbase	1	1	6.5
Oracle Global Lifecycle Management	6	3	7.5
Oracle GoldenGate	6	3	7.5
Oracle Graph Server and Client	1	1	5.3
Oracle REST Data Services	1	1	5.3
Oracle Secure Backup	1	0	7.5
Oracle TimesTen In-Memory Database	1	0	5.3
Oracle Commerce	6	5	7.5
Oracle Communications Applications	9	4	9.8
Oracle Communications	91	60	9.8
Oracle Construction and Engineering	4	1	7.5
Oracle E-Business Suite	4	3	6.5
Oracle Enterprise Manager	5	5	9.1
Oracle Financial Services Applications	103	49	9.9
Oracle Fusion Middleware	46	35	9.8
Oracle Analytics	16	11	9.9
Oracle Health Sciences Applications	2	2	8.1
Oracle HealthCare Applications	1	0	6.5
Oracle Hospitality Applications	2	0	8.8
Oracle Hyperion	2	1	9.8
Oracle Insurance Applications	1	1	9.8
Oracle Java SE	5	5	7.5
Oracle JD Edwards	1	1	5.3
Oracle MySQL	37	9	9.8
Oracle PeopleSoft	5	3	9.8
Oracle Retail Applications	15	9	9.8
Oracle Siebel CRM	2	2	7.5
Oracle Supply Chain	1	1	7.5
Oracle Systems	3	2	5.9
Oracle Utilities Applications	3	2	9.8
Oracle Virtualization	3	0	7.9

三. 漏洞防护

3.1 补丁更新

请用户参考本文附录“受影响产品及补丁信息”及时下载受影响产品更新补丁，并参照补丁安装包中的 readme 文件进行安装更新，以保证长期有效的防护。

注：Oracle 官方补丁需要用户持有正版软件的许可账号，使用该账号登陆 <https://support.oracle.com> 后，可以下载最新补丁。

3.2 Weblogic 临时防护措施

3.2.1 限制 T3 协议访问

若相关用户暂时无法安装补丁或不通过 T3 协议进行 JVM 通信，可使用下列措施阻断针对利用 T3 协议漏洞的攻击：

WebLogic Server 提供了名为 `weblogic.security.net.ConnectionFilterImpl` 的默认连接筛选器，此连接筛选器接受所有传入连接，可通过此连接筛选器配置规则，对 T3 及 T3s 协议进行访问控制，详细操作步骤如下：

1. 进入 WebLogic 控制台，在 `base_domain` 的配置页面中，进入“安全”选项卡页面，点击“筛选器”，进入连接筛选器配置。



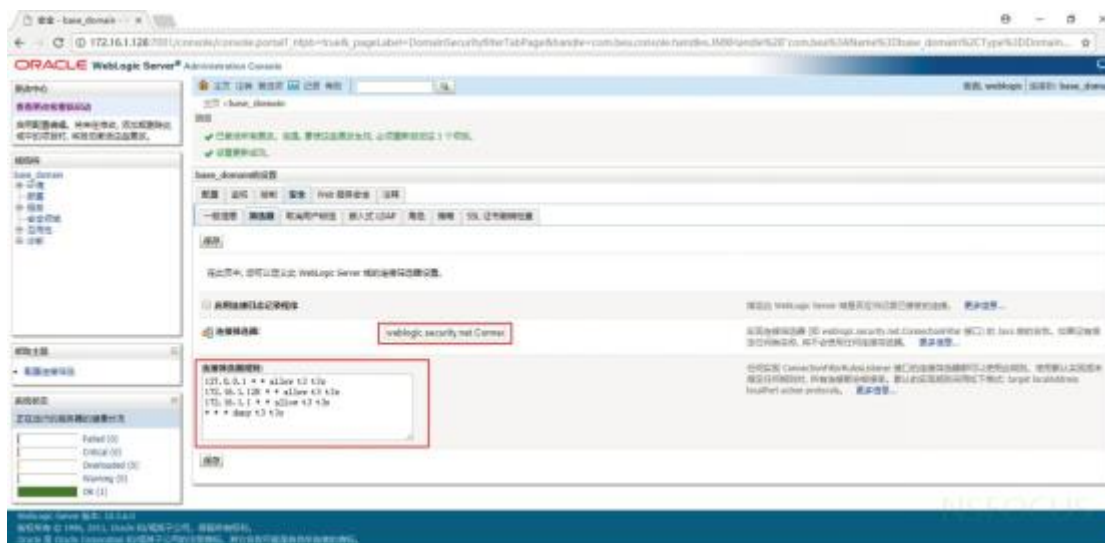
2. 在连接筛选器中输入：weblogic.security.net.ConnectionFilterImpl，参考以下写法，在连接筛选器规则中配置符合企业实际情况的规则：

127.0.0.1 * * allow t3 t3s

本机 IP * * allow t3 t3s

允许访问的 IP * * allow t3 t3s

* * * deny t3 t3s

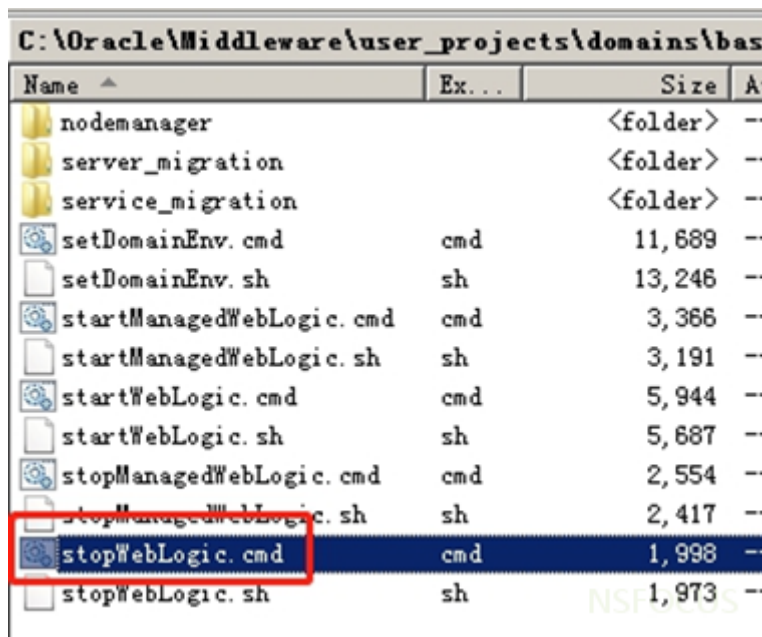


连接筛选器规则格式如下：target localAddress localPort action protocols，其中：

- target 指定一个或多个要筛选的服务器。
- localAddress 可定义服务器的主机地址。(如果指定为一个星号 (*)，则返回的匹配结果将是所有本地 IP 地址。)
- localPort 定义服务器正在监听的端口。(如果指定了星号，则匹配返回的结果将是服务器上所有可用的端口)。
- action 指定要执行的操作。(值必须为“allow”或“deny”。)
- protocols 是要进行匹配的协议名列表。(必须指定下列其中一个协议：http、https、t3、t3s、giop、giops、dcom 或 ftp。) 如果未定义协议，则所有协议都将与一个规则匹配。

3. 保存后若规则未生效，建议重新启动 WebLogic 服务（重启 WebLogic 服务会导致业务中断，建议相关人员评估风险后，再进行操作）。以 Windows 环境为例，重启服务的步骤如下：

进入域所在目录下的 bin 目录，在 Windows 系统中运行 stopWebLogic.cmd 文件终止 WebLogic 服务，Linux 系统中则运行 stopWebLogic.sh 文件。



待终止脚本执行完成后，再运行 startWebLogic.cmd 或 startWebLogic.sh 文件启动 WebLogic，即可完成 WebLogic 服务重启。

参考链接：

https://docs.oracle.com/cd/E24329_01/web.1211/e24485/con_filtr.htm#SCPRG377

3.2.2 禁用 IIOP 协议

用户可通过关闭 IIOP 协议阻断针对利用 IIOP 协议漏洞的攻击，操作如下：

在 WebLogic 控制台中，选择“服务”->“AdminServer”->“协议”，取消“启用 IIOP”的勾选。并重启 WebLogic 项目，使配置生效。



附录 受影响产品及补丁信息

受影响产品及版本号	可用补丁
BI Publisher, versions 6.4.0.0.0, 7.0.0.0.0, 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978488.2
GoldenGate Big Data, versions 21.3-21.10	https://support.oracle.com/rs?type=doc&id=2966413.1
GoldenGate Veridata, versions 12.2.1.4.0-12.2.1.4.230922	https://support.oracle.com/rs?type=doc&id=2966413.1
Hospitality OPERA 5 Property Services, version 5.6	https://support.oracle.com/rs?type=doc&id=2978137.1
JD Edwards EnterpriseOne Tools, version 9.2.7	https://support.oracle.com/rs?type=doc&id=2978445.1
Management Cloud Engine, version 23.1.0.0	https://support.oracle.com/rs?type=doc&id=2978834.1
MySQL Cluster, versions 8.0.34 and prior, 8.1.0	https://support.oracle.com/rs?type=doc&id=2977667.1
MySQL Connectors, versions 8.1.0 and prior	https://support.oracle.com/rs?type=doc&id=2977667.1
MySQL Enterprise Monitor, versions 8.0.35 and prior	https://support.oracle.com/rs?type=doc&id=2977667.1
MySQL Installer, versions prior to 1.6.8	https://support.oracle.com/rs?type=doc&id=2977667.1
MySQL Server, versions 5.7.43 and prior, 8.0.34 and prior, 8.1.0 and prior	https://support.oracle.com/rs?type=doc&id=2977667.1
MySQL Shell, versions 8.1.1 and prior	https://support.oracle.com/rs?type=doc&id=2977667.1
Oracle Access Manager, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Agile PLM, version 9.3.6	https://support.oracle.com/rs?type=doc&id=2978427.1
Oracle Application Testing Suite, version 13.3.0.1	https://support.oracle.com/rs?type=doc&id=2966414.1
Oracle Banking APIs, versions 18.3, 19.1, 19.2, 21.1, 22.1, 22.2	https://support.oracle.com
Oracle Banking Branch, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Cash Management, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Corporate Lending, versions 14.0-14.3, 14.5-14.7	https://support.oracle.com

Oracle Banking Corporate Lending Process Management, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Credit Facilities Process Management, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Deposits and Lines of Credit Servicing, versions 2.7, 2.12	https://support.oracle.com
Oracle Banking Digital Experience, versions 18.3, 19.1, 19.2, 21.1, 22.1, 22.2	https://support.oracle.com
Oracle Banking Electronic Data Exchange for Corporates, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Liquidity Management, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Loans Servicing, version 2.12	https://support.oracle.com/rs?type=doc&id=2978283.1
Oracle Banking Origination, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Party Management, version 2.7	https://support.oracle.com/rs?type=doc&id=2978283.1
Oracle Banking Payments, versions 14.0-14.3, 14.5-14.7	https://support.oracle.com
Oracle Banking Platform, versions 2.6.2, 2.9.0	https://support.oracle.com/rs?type=doc&id=2978283.1
Oracle Banking Supply Chain Finance, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Trade Finance, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Trade Finance Process Management, versions 14.5-14.7	https://support.oracle.com
Oracle Banking Virtual Account Management, versions 14.5-14.7	https://support.oracle.com
Oracle Big Data Spatial and Graph, versions 2.5 and prior	https://support.oracle.com/rs?type=doc&id=2966413.1
Oracle Business Intelligence Enterprise Edition, versions 6.4.0.0.0, 7.0.0.0.0, 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978488.2
Oracle Business Process Management Suite, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Coherence, versions 12.2.1.4.0, 14.1.1.0.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Commerce Guided Search, version 11.3.2	https://support.oracle.com/rs?type=doc&id=2978523.1
Oracle Communications BRM - Elastic Charging Engine, versions 12.0.0.4-12.0.0.8	https://support.oracle.com/rs?type=doc&id=2977044.1
Oracle Communications Cloud Native Core Binding	https://support.oracle.com/rs?type=

Support Function, versions 23.1.0-23.1.8, 23.2.0-23.2.4	doc&id=2978795.1
Oracle Communications Cloud Native Core Console, versions 23.1.1, 23.1.2, 23.2.1	https://support.oracle.com/rs?type=doc&id=2978796.1
Oracle Communications Cloud Native Core Network Exposure Function, versions 23.1.3, 23.3.0	https://support.oracle.com/rs?type=doc&id=2978797.1
Oracle Communications Cloud Native Core Network Function Cloud Native Environment, versions 23.2.0, 23.2.2	https://support.oracle.com/rs?type=doc&id=2978838.1
Oracle Communications Cloud Native Core Network Repository Function, versions 23.1.3, 23.2.1, 23.3.0	https://support.oracle.com/rs?type=doc&id=2978839.1
Oracle Communications Cloud Native Core Policy, versions 23.1.0-23.1.8, 23.2.0-23.2.4	https://support.oracle.com/rs?type=doc&id=2978840.1
Oracle Communications Cloud Native Core Security Edge Protection Proxy, versions 23.1.0, 23.1.3, 23.3.0	https://support.oracle.com/rs?type=doc&id=2978841.1
Oracle Communications Cloud Native Core Unified Data Repository, version 23.1.2	https://support.oracle.com/rs?type=doc&id=2978842.1
Oracle Communications Convergent Charging Controller, version 12.0.6.0	https://support.oracle.com/rs?type=doc&id=2977046.1
Oracle Communications Diameter Signaling Router, versions 8.6.0.0, 9.0.0.0	https://support.oracle.com/rs?type=doc&id=2978843.1
Oracle Communications Element Manager, versions 9.0.0-9.0.2	https://support.oracle.com/rs?type=doc&id=2978844.1
Oracle Communications IP Service Activator, versions 7.4.0, 7.5.0	https://support.oracle.com/rs?type=doc&id=2977035.1
Oracle Communications MetaSolv Solution, version 6.3.1.0.0	https://support.oracle.com/rs?type=doc&id=2977034.1
Oracle Communications Network Analytics Data Director, version 23.2.0	https://support.oracle.com/rs?type=doc&id=2978845.1
Oracle Communications Network Charging and Control, version 12.0.6.0	https://support.oracle.com/rs?type=doc&id=2977046.1
Oracle Communications Order and Service Management, versions 7.4.0, 7.4.1	https://support.oracle.com/rs?type=doc&id=2977045.1
Oracle Communications Policy Management, version 12.6.0.0	https://support.oracle.com/rs?type=doc&id=2979749.1
Oracle Communications Session Report Manager, versions 9.0.0-9.0.2	https://support.oracle.com/rs?type=doc&id=2978836.1
Oracle Communications Unified Assurance, versions 5.5.0-5.5.17, 6.0.0-6.0.3	https://support.oracle.com/rs?type=doc&id=2977047.1
Oracle Communications WebRTC Session Controller,	https://support.oracle.com/rs?type=doc&id=2977048.1

versions 7.2.0.0.0, 7.2.1.0.0	doc&id=2979750.1
Oracle Data Integrator, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Database Server, versions 19.3-19.20, 21.3-21.11	https://support.oracle.com/rs?type=doc&id=2966413.1
Oracle Documaker, versions 12.6.4-12.7.1	https://support.oracle.com/rs?type=doc&id=2979125.1
Oracle E-Business Suite, versions 12.2.3-12.2.12, [ECC] 8, [ECC] 9, [ECC] 10	https://support.oracle.com/rs?type=doc&id=2484000.1
Oracle Enterprise Communications Broker, versions 3.3, 4.0, 4.1	https://support.oracle.com/rs?type=doc&id=2978214.1
Oracle Enterprise Data Quality, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Enterprise Manager Base Platform, version 13.5.0.0	https://support.oracle.com/rs?type=doc&id=2966414.1
Oracle Enterprise Manager for Peoplesoft, version 13.5.1.1	https://support.oracle.com/rs?type=doc&id=2966414.1
Oracle Enterprise Manager Ops Center, version 12.4.0.0	https://support.oracle.com/rs?type=doc&id=2966414.1
Oracle Enterprise Operations Monitor, versions 5.0, 5.1	https://support.oracle.com/rs?type=doc&id=2978837.1
Oracle Enterprise Session Border Controller, versions 9.0-9.2	https://support.oracle.com/rs?type=doc&id=2978230.1
Oracle Essbase, version 11.5.0.0.0	https://support.oracle.com/rs?type=doc&id=2966413.1
Oracle Financial Services Cash Flow Engine, version 8.1.2.0.0	https://support.oracle.com
Oracle Financial Services Model Management and Governance, versions 8.1.2.3, 8.1.2.4	https://support.oracle.com/rs?type=doc&id=2979139.1
Oracle FLEXCUBE Core Banking, versions 11.6-11.8, 11.10, 11.11	https://support.oracle.com
Oracle FLEXCUBE Enterprise Limits and Collateral Management, versions 12.3, 12.4, 14.0-14.3, 14.5-14.7	https://support.oracle.com
Oracle FLEXCUBE Universal Banking, versions 12.3, 12.4, 14.0-14.3, 14.5-14.7	https://support.oracle.com
Oracle Fusion Middleware MapViewer, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Global Lifecycle Management OPatch, versions prior to 12.2.0.1.40	https://support.oracle.com/rs?type=doc&id=2966413.1
Oracle GoldenGate Studio, version 12.2.1.4.0	https://support.oracle.com/rs?type=

	doc&id=2966413.1
Oracle GraalVM for JDK, versions 17.0.8, 20.0.2	https://support.oracle.com/rs?type=doc&id=2978178.1
Oracle Graph Server and Client, versions 22.4.4 and prior	https://support.oracle.com/rs?type=doc&id=2966413.1
Oracle Healthcare Master Person Index, versions 5.0.0-5.0.6	https://support.oracle.com/rs?type=doc&id=2978691.1
Oracle HTTP Server, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Hyperion Infrastructure Technology, version 11.2.14.0.0	https://support.oracle.com/rs?type=doc&id=2775466.2
Oracle Identity Manager, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Java SE, versions 8u381, 8u381-perf, 11.0.20, 17.0.8, 20.0.2	https://support.oracle.com/rs?type=doc&id=2978178.1
Oracle Life Sciences InForm, version 7.0.0.0	https://support.oracle.com/rs?type=doc&id=2959737.1
Oracle Life Sciences InForm Publisher, version 6.3.1.0	https://support.oracle.com/rs?type=doc&id=2959737.1
Oracle Managed File Transfer, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Middleware Common Libraries and Tools, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Outside In Technology, version 8.5.6	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle REST Data Services, versions prior to 23.2.2	https://support.oracle.com/rs?type=doc&id=2966413.1
Oracle Retail Bulk Data Integration, versions 16.0.3, 19.0.1	https://support.oracle.com/rs?type=doc&id=2975532.1
Oracle Retail Customer Management and Segmentation Foundation, versions 18.0.0.13, 19.0.0.7	https://support.oracle.com/rs?type=doc&id=2975532.1
Oracle Retail EFTLink, versions 20.0.1, 21.0.0, 22.0.0	https://support.oracle.com/rs?type=doc&id=2975532.1
Oracle Retail Financial Integration, versions 14.1.3.2, 15.0.3.1, 16.0.3, 19.0.1	https://support.oracle.com/rs?type=doc&id=2975532.1
Oracle Retail Fiscal Management, version 14.2	https://support.oracle.com/rs?type=doc&id=2975532.1
Oracle Retail Integration Bus, versions 14.1.3.2, 15.0.3.1, 16.0.3, 19.0.1	https://support.oracle.com/rs?type=doc&id=2975532.1
Oracle Retail Merchandising System, version 19.0.1	https://support.oracle.com/rs?type=doc&id=2975532.1

	doc&id=2975532.1
Oracle Retail Service Backbone, versions 14.1.3.2, 15.0.3.1, 16.0.3, 19.0.1	https://support.oracle.com/rs?type=doc&id=2975532.1
Oracle Retail Xstore Point of Service, versions 18.0.5, 19.0.4, 20.0.3, 21.0.2, 22.0.0	https://support.oracle.com/rs?type=doc&id=2975532.1
Oracle SD-WAN Edge, versions 9.1.1.5.0, 9.1.1.6.0	https://support.oracle.com/rs?type=doc&id=2978846.1
Oracle Secure Backup, versions 18.1.0.1.0, 18.1.0.2.0	https://support.oracle.com/rs?type=doc&id=2966413.1
Oracle Service Bus, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle SOA Suite, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Solaris, versions 10, 11	https://support.oracle.com/rs?type=doc&id=2978317.1
Oracle Unified Directory, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle Utilities Application Framework, versions 4.2.0.3.0, 4.3.0.1.0-4.3.0.6.0, 4.4.0.0.0, 4.4.0.2.0, 4.4.0.3.0, 4.5.0.0.0, 4.5.0.0.1, 4.5.0.1.0-4.5.0.1.2	https://support.oracle.com/rs?type=doc&id=2977174.1
Oracle Utilities Network Management System, versions 2.3.0.2, 2.4.0.1	https://support.oracle.com/rs?type=doc&id=2977174.1
Oracle VM VirtualBox, versions prior to 7.0.12	https://support.oracle.com/rs?type=doc&id=2978250.1
Oracle WebCenter Content, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle WebCenter Portal, version 12.2.1.4.0	https://support.oracle.com/rs?type=doc&id=2978467.2
Oracle WebLogic Server, versions 12.2.1.3.0, 12.2.1.4.0, 14.1.1.0.0	https://support.oracle.com/rs?type=doc&id=2978467.2
PeopleSoft Enterprise CC Common Application Objects, version 9.2	https://support.oracle.com/rs?type=doc&id=2978441.1
PeopleSoft Enterprise HCM Global Payroll Switzerland, version 9.2	https://support.oracle.com/rs?type=doc&id=2978441.1
PeopleSoft Enterprise PeopleTools, versions 8.59, 8.60	https://support.oracle.com/rs?type=doc&id=2978441.1
Primavera Gateway, versions 19.12.0-19.12.17, 20.12.0-20.12.12, 21.12.0-21.12.10	https://support.oracle.com/rs?type=doc&id=2978463.1
Primavera Unifier, versions 19.12.0-19.12.16, 20.12.0-20.12.16, 21.12.0-21.12.16, 22.12.0-22.12.9	https://support.oracle.com/rs?type=doc&id=2978463.1
Siebel Applications, versions 23.8 and prior	https://support.oracle.com/rs?type=doc&id=2978463.1

	doc&id=2978442.1
Sun ZFS Storage Appliance, version 8.8.60	https://support.oracle.com/rs?type=doc&id=2978317.1
TimesTen In-Memory Database, versions prior to 18.1.4.38.0, prior to 18.1.4.39.0, prior to 22.1.1.18.0	https://support.oracle.com/rs?type=doc&id=2966413.1

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