

# Oracle Critical Patch Update Advisory - January 2021

## Description

A Critical Patch Update is a collection of patches for multiple security vulnerabilities. These patches address vulnerabilities in Oracle code and in third-party components included in Oracle products. These patches are usually cumulative, but each advisory describes only the security patches added since the previous Critical Patch Update Advisory. Thus, prior Critical Patch Update advisories should be reviewed for information regarding earlier published security patches. Refer to [“Critical Patch Updates, Security Alerts and Bulletins”](#) for information about Oracle Security advisories.

**Oracle continues to periodically receive reports of attempts to maliciously exploit vulnerabilities for which Oracle has already released security patches. In some instances, it has been reported that attackers have been successful because targeted customers had failed to apply available Oracle patches. Oracle therefore strongly recommends that customers remain on actively-supported versions and apply Critical Patch Update security patches without delay.**

This Critical Patch Update contains 329 new security patches across the product families listed below. Please note that an MOS note summarizing the content of this Critical Patch Update and other Oracle Software Security Assurance activities is located at [January 2021 Critical Patch Update: Executive Summary and Analysis](#).

**Please note that since the release of the October 2020 Critical Patch Update, Oracle has released a Security Alert for Oracle WebLogic Server: [CVE-2020-14750 \(November 1, 2020\)](#). Customers are strongly advised to apply this Critical Patch Update, which includes patches for this Alert as well as additional patches.**

## Affected Products and Patch Information

Security vulnerabilities addressed by this Critical Patch Update affect the products listed below. The product area is shown in the Patch Availability Document column.

**Please click on the links in the Patch Availability Document column below to access the documentation for patch availability information and installation instructions.**

| Affected Products and Versions   | Patch Availability Document               |
|--|---|
| Business Intelligence Enterprise Edition, versions 5.5.0.0.0, 11.1.1.9.0, 12.2.1.3.0, 12.2.1.4.0 | Fusion Middleware                         |
| Enterprise Manager Base Platform, versions 13.2.1.0, 13.3.0.0, 13.4.0.0                          | Enterprise Manager                        |
| Enterprise Manager for Fusion Applications, version 13.3.0.0                                     | Enterprise Manager                        |
| Enterprise Manager Ops Center, version 12.4.0.0  | Enterprise Manager                        |
| Hyperion Financial Reporting, version 11.1.2.4   | Fusion Middleware                         |
| Hyperion Infrastructure Technology, version 11.1.2.4   | Fusion Middleware                         |
| Instantis EnterpriseTrack, versions 17.1-17.3  | Oracle Construction and Engineering Suite |
| JD Edwards EnterpriseOne Orchestrator, versions prior to 9.2.5.1                                 | JD Edwards                                |
| JD Edwards EnterpriseOne Tools, versions prior to 9.2.5.0  | JD Edwards                                |
| MySQL Client, versions 5.6.50 and prior, 5.7.32 and prior, 8.0.22 and prior                      | MySQL                                     |
| MySQL Enterprise Monitor, versions 8.0.22 and prior  | MySQL                                     |
| MySQL Server, versions 5.6.50 and prior, 5.7.32 and prior, 8.0.22 and prior                      | MySQL                                     |
| MySQL Workbench, versions 8.0.22 and prior   | MySQL                                     |
| Oracle Adaptive Access Manager, version 11.1.2.3.0   | Fusion Middleware                         |
| Oracle Agile Engineering Data Management, version 6.2.1.0  | Oracle Supply Chain Products              |
| Oracle Agile PLM, versions 9.3.5, 9.3.6  | Oracle Supply Chain Products              |
| Oracle Agile Product Lifecycle Management for Process, version 6.1                               | Oracle Supply Chain Products              |
| Oracle Application Express Opportunity Tracker, versions prior to 20.2                           | Database                                  |
| Oracle Application Express Survey Builder, versions prior to 20.2                                | Database                                  |
| Oracle Application Testing Suite, version 13.3.0.1   | Enterprise Manager                        |
| Oracle Argus Safety, version 8.2.2   | Health Sciences                           |
| Oracle BAM (Business Activity Monitoring), versions 11.1.1.9.0, 12.2.1.3.0                       | Fusion Middleware                         |
| Oracle Banking Corporate Lending Process Management, versions 14.1.0, 14.3.0, 14.4.0             | Oracle Financial Services Application:    |
| Oracle Banking Credit Facilities Process Management, versions 14.1.0, 14.3.0, 14.4.0             | Oracle Financial Services Application:    |

| Affected Products and Versions  | Patch Availability Document                          |
|---|--|
| Oracle Banking Extensibility Workbench, versions 14.3.0, 14.4.0                                       | Oracle Financial Services Application:               |
| Oracle Banking Liquidity Management, versions 14.0.0-14.4.0   | Oracle Financial Services Application:               |
| Oracle Banking Payments, version 14.4.0   | Oracle Financial Services Application:               |
| Oracle Banking Platform, versions 2.4.0, 2.4.1, 2.6.2, 2.7.0, 2.7.1, 2.8.0, 2.9.0                     | Oracle Banking Platform                              |
| Oracle Banking Supply Chain Finance, versions 14.2.0-14.4.0   | Oracle Financial Services Application:               |
| Oracle Banking Trade Finance Process Management, versions 14.1.0, 14.3.0, 14.4.0                      | Oracle Financial Services Application:               |
| Oracle Banking Virtual Account Management, versions 14.1.0, 14.3.0, 14.4.0                            | Oracle Financial Services Application:               |
| Oracle BI Publisher, versions 5.5.0.0.0, 11.1.9.0, 12.2.1.3.0, 12.2.1.4.0                             | Fusion Middleware                                    |
| Oracle Business Intelligence Enterprise Edition, versions 5.5.0.0.0, 11.1.9.0, 12.2.1.3.0, 12.2.1.4.0 | Fusion Middleware                                    |
| Oracle Business Process Management Suite, versions 12.2.1.3.0, 12.2.1.4.0                             | Fusion Middleware                                    |
| Oracle Coherence, versions 3.7.1.0, 12.1.3.0.0, 12.2.1.3.0, 12.2.1.4.0, 14.1.1.0.0                    | Fusion Middleware                                    |
| Oracle Communications Application Session Controller, version 3.9mOp2                                 | Oracle Communications Application Session Controller |
| Oracle Communications ASAP, version 7.3   | Oracle Communications ASAP                           |
| Oracle Communications BRM - Elastic Charging Engine, versions 11.3.0.9, 12.0.0.3                      | Oracle Communications BRM - Elastic Charging Engine  |
| Oracle Communications Calendar Server, version 8.0.0.4.0  | Oracle Communications Calendar Server                |
| Oracle Communications Contacts Server, version 8.0.0.5.0  | Oracle Communications Contacts Server                |
| Oracle Communications Diameter Signaling Router (DSR), versions 8.0.0-8.2.2                           | Oracle Communications Diameter Signaling Router      |
| Oracle Communications Element Manager, versions 8.2.1.0-8.2.2.1                                       | Oracle Communications Element Manager                |
| Oracle Communications MetaSolv Solution, versions 6.3.0-6.3.1   | Oracle Communications MetaSolv Solution              |
| Oracle Communications Network Charging and Control, versions 6.0.1, 12.0.2                            | Oracle Communications Network Charging and Control   |
| Oracle Communications Operations Monitor, versions 3.4, 4.1, 4.2, 4.3                                 | Oracle Communications Operations Monitor             |

| Affected Products and Versions   | Patch Availability Document  |
|--|--|
| Oracle Communications Performance Intelligence Center (PIC) Software, version 10.4.0.2 | Oracle Communications Performance Intelligence Center (PIC) Software |
| Oracle Communications Session Report Manager, versions 8.2.1.0-8.2.2.1                 | Oracle Communications Session Rep Manager                            |
| Oracle Complex Maintenance, Repair, and Overhaul, versions 11.5.10, 12.1, 12.2         | Oracle Supply Chain Products   |
| Oracle Configurator, versions 12.1, 12.2   | Oracle Supply Chain Products   |
| Oracle Data Integrator, versions 11.1.9.0, 12.2.1.3.0, 12.2.1.4.0                      | Fusion Middleware  |
| Oracle Database Server, versions 12.1.0.2, 12.2.0.1, 18c, 19c                          | Database   |
| Oracle E-Business Suite, versions 12.1.1-12.1.3, 12.2.3-12.2.10                        | E-Business Suite   |
| Oracle Endeca Information Discovery Integrator, version 3.2.0.0                        | Fusion Middleware  |
| Oracle Enterprise Communications Broker, versions 3.1, 3.2                             | Oracle Enterprise Communications Broker                              |
| Oracle Enterprise Data Quality, versions 11.1.9.0, 12.2.1.3.0                          | Fusion Middleware  |
| Oracle Enterprise Repository, version 11.1.7.0   | Fusion Middleware  |
| Oracle Financial Services Analytical Applications Infrastructure, versions 8.0.6-8.1.0 | Oracle Financial Services Analytical Applications Infrastructure     |
| Oracle Financial Services Asset Liability Management, versions 8.0.7, 8.1.0            | Oracle Financial Services Asset Liabil Management                    |
| Oracle Financial Services Data Integration Hub, versions 8.0.3, 8.0.6                  | Oracle Financial Services Data Integration Hub                       |
| Oracle Financial Services Funds Transfer Pricing, versions 8.0.6, 8.0.7, 8.1.0         | Oracle Financial Services Funds Trans Pricing                        |
| Oracle Financial Services Market Risk Measurement and Management, version 8.0.6        | Oracle Financial Services Market Risk Measurement and Management     |
| Oracle Financial Services Profitability Management, versions 8.0.6, 8.0.7, 8.1.0       | Oracle Financial Services Profitability Management                   |
| Oracle Financial Services Revenue Management and Billing, versions 2.9.0.0, 2.9.0.1    | Oracle Financial Services Revenue Management and Billing             |
| Oracle FLEXCUBE Core Banking, versions 11.5.0-11.9.0                                   | Oracle Financial Services Application:                               |
| Oracle FLEXCUBE Universal Banking, version 14.4.0                                      | Oracle Financial Services Application:                               |
| Oracle Fusion Middleware MapViewer, version 12.2.1.3.0                                 | Fusion Middleware  |
| Oracle Global Lifecycle Management OPatch  | Fusion Middleware  |
| Oracle Global Lifecycle Manager  | Global Lifecycle Management  |
| Oracle GoldenGate Application Adapters, version 19.1.0.0.0                             | Fusion Middleware  |

| <b>Affected Products and Versions</b>  | <b>Patch Availability Document</b>                           |
|--|--|
| Oracle GraalVM Enterprise Edition, versions 19.3.4, 20.3.0                                     | Oracle GraalVM Enterprise Edition                            |
| Oracle Health Sciences Information Manager, version 3.0.1                                      | Health Sciences  |
| Oracle Healthcare Master Person Index, version 4.0.2.5   | Health Sciences  |
| Oracle Hospitality Reporting and Analytics, version 9.1.0                                      | Oracle Hospitality Reporting and Analytics                   |
| Oracle Hospitality Symphony, versions 18.2.7.2, 19.1.3   | Oracle Hospitality Symphony                                  |
| Oracle Insurance Allocation Manager for Enterprise Profitability, version 8.1.0                | Oracle Insurance Allocation Manager Enterprise Profitability |
| Oracle Insurance Insbridge Rating and Underwriting, versions 5.0.0.20, 5.1.1.3                 | Oracle Insurance Applications                                |
| Oracle Insurance Policy Administration, versions 10.2.0, 10.2.4, 11.0.2, 11.1.0-11.3.0         | Oracle Insurance Applications                                |
| Oracle Insurance Rules Palette, versions 10.2.0, 10.2.4, 11.0.2, 11.1.0-11.3.0                 | Oracle Insurance Applications                                |
| Oracle Java SE, versions 7u281, 8u271  | Java SE  |
| Oracle Java SE Embedded, version 8u271   | Java SE  |
| Oracle Managed File Transfer, versions 12.2.1.3.0, 12.2.1.4.0                                  | Fusion Middleware  |
| Oracle Outside In Technology, versions 8.5.4, 8.5.5  | Fusion Middleware  |
| Oracle Real-Time Decision Server, version 3.2.1.0  | Fusion Middleware  |
| Oracle Retail Assortment Planning, version 16.0.3  | Retail Applications  |
| Oracle Retail Bulk Data Integration, versions 15.0.3, 16.0.3                                   | Retail Applications  |
| Oracle Retail Customer Management and Segmentation Foundation, versions 16.0, 17.0, 18.0, 19.0 | Retail Applications  |
| Oracle Retail Extract Transform and Load, versions 13.2.5, 13.2.8                              | Retail Applications  |
| Oracle Retail Financial Integration, versions 14.1.3, 15.0.3, 16.0.3                           | Retail Applications  |
| Oracle Retail Integration Bus, versions 14.1.3, 15.0.3, 16.0.3                                 | Retail Applications  |
| Oracle Retail Invoice Matching, versions 13.2, 14.0, 14.1                                      | Retail Applications  |
| Oracle Retail Merchandising System, version 15.0   | Retail Applications  |
| Oracle Retail Order Broker, versions 15.0, 16.0  | Retail Applications  |
| Oracle Retail Order Broker Cloud Service, version 15.0   | Retail Applications  |
| Oracle Retail Sales Audit, version 14.1  | Retail Applications  |
| Oracle Retail Service Backbone, versions 14.1.3, 15.0.3, 16.0.3                                | Retail Applications  |

| Affected Products and Versions   | Patch Availability Document               |
|--|---|
| Oracle Retail Store Inventory Management, versions 14.0.4.0, 14.1.3.0, 14.1.3.9, 15.0.3.0, 16.0.3.0                              | Retail Applications                       |
| Oracle SD-WAN Edge, version 9.0  | Oracle SD-WAN Edge                        |
| Oracle Secure Backup   | Oracle Secure Backup                      |
| Oracle Transportation Management, version 1.4.3  | Oracle Supply Chain Products              |
| Oracle Utilities Framework, versions 4.2.0.2.0, 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                             | Oracle Utilities Applications             |
| Oracle VM VirtualBox, versions prior to 6.1.18   | Virtualization                            |
| Oracle WebCenter Portal, versions 11.1.9.0, 12.2.1.3.0, 12.2.1.4.0   | Fusion Middleware                         |
| Oracle WebCenter Sites, versions 12.2.1.3.0, 12.2.1.4.0  | Fusion Middleware                         |
| Oracle WebLogic Server, versions 10.3.6.0.0, 12.1.3.0.0, 12.2.1.3.0, 12.2.1.4.0, 14.1.1.0.0                                      | Fusion Middleware                         |
| Oracle ZFS Storage Appliance Kit, version 8.8  | Systems                                   |
| PeopleSoft Enterprise FIN Payables, version 9.2  | PeopleSoft                                |
| PeopleSoft Enterprise HCM Human Resources, version 9.2   | PeopleSoft                                |
| PeopleSoft Enterprise PeopleTools, versions 8.56, 8.57, 8.58   | PeopleSoft                                |
| Primavera Gateway, versions 16.2.0-16.2.11, 17.12.0-17.12.9, 18.8.0-18.8.10, 19.12.0-19.12.10                                    | Oracle Construction and Engineering Suite |
| Primavera P6 Enterprise Project Portfolio Management, versions 16.1.0-16.2.20, 17.1.0-17.12.19, 18.1.0-18.8.21, 19.12.0-19.12.10 | Oracle Construction and Engineering Suite |
| Primavera Unifier, versions 16.1, 16.2, 17.7-17.12, 18.8, 19.12, 20.12   | Oracle Construction and Engineering Suite |
| Siebel Applications, versions 20.12 and prior  | Siebel                                    |
| StorageTek Tape Analytics SW Tool, version 2.3.1   | Systems                                   |

## Note:

- Vulnerabilities affecting either Oracle Database or Oracle Fusion Middleware may affect Oracle Fusion Applications, so Oracle customers should refer to Oracle Fusion Applications Critical Patch Update Knowledge Document, [My Oracle Support Note 1967316.1](#) for information on patches to be applied to Fusion Application environments.
- Vulnerabilities affecting Oracle Solaris may affect Oracle ZFSSA so Oracle customers should refer to the Oracle and Sun Systems Product Suite Critical Patch Update Knowledge Document, [My Oracle Support Note 2160904.1](#) for information on minimum revisions of security patches required to resolve ZFSSA issues published in Critical Patch Updates and Solaris Third Party bulletins.

- Solaris Third Party Bulletins are used to announce security patches for third party software distributed with Oracle Solaris. Solaris 10 customers should refer to the latest patch-sets which contain critical security fixes and detailed in Systems Patch Availability Document. Please see Reference Index of CVE IDs and Solaris Patches ([My Oracle Support Note 1448883.1](#)) for more information.
- Users running Java SE with a browser can download the latest release from <https://java.com>. Users on the Windows and Mac OS X platforms can also use [automatic updates](#) to get the latest release.

## Risk Matrix Content

Risk matrices list only security vulnerabilities that are newly addressed by the patches associated with this advisory. Risk matrices for previous security patches can be found in [previous Critical Patch Update advisories and Alerts](#). An English text version of the risk matrices provided in this document is [here](#).

Several vulnerabilities addressed in this Critical Patch Update affect multiple products. Each vulnerability is identified by a **CVE#** which is its unique identifier. A vulnerability that affects multiple products will appear with the same CVE# in all risk matrices. A CVE# shown in *italics* indicates that this vulnerability impacts a different product, but also has impact on the product where the italicized CVE# is listed.

Security vulnerabilities are scored using CVSS version 3.1 (see [Oracle CVSS Scoring](#) for an explanation of how Oracle applies CVSS version 3.1).

Oracle conducts an analysis of each security vulnerability addressed by a Critical Patch Update. Oracle does not disclose detailed information about this security analysis to customers, but the resulting Risk Matrix and associated documentation provide information about the type of vulnerability, the conditions required to exploit it, and the potential impact of a successful exploit. Oracle provides this information, in part, so that customers may conduct their own risk analysis based on the particulars of their product usage. For more information, see [Oracle vulnerability disclosure policies](#).

Oracle lists updates that address vulnerabilities in third-party components which are not exploitable in the context of their inclusion in their respective Oracle product beneath the product's risk matrix.

The protocol in the risk matrix implies that all of its secure variants (if applicable) are affected as well. For example, if HTTP is listed as an affected protocol, it implies that HTTPS (if applicable) is also affected. The secure variant of a protocol is listed in the risk matrix only if it is the *only* variant affected, e.g. HTTPS will typically be listed for vulnerabilities in SSL and TLS.

## Workarounds

**Due to the threat posed by a successful attack, Oracle strongly recommends that customers apply Critical Patch Update security patches as soon as possible.** Until you apply the Critical Patch Update patches, it may be possible to reduce the risk of successful attack by blocking network protocols required by an attack. For attacks that require certain privileges or access to certain packages, removing the privileges or the ability to access the packages from users that do not need the privileges may help reduce the risk of successful attack. Both approaches may break application functionality, so Oracle strongly recommends that customers test changes on non-production systems. Neither approach should be considered a long-term solution as neither corrects the underlying problem.

## Skipped Critical Patch Updates

Oracle strongly recommends that customers apply security patches as soon as possible. For customers that have skipped one or more Critical Patch Updates and are concerned about products that do not have security patches announced in this Critical Patch Update, please review [previous Critical Patch Update advisories](#) to determine appropriate actions.

## Critical Patch Update Supported Products and Versions

Patches released through the Critical Patch Update program are provided only for product versions that are covered under the Premier Support or Extended Support phases of the [Lifetime Support Policy](#). Oracle recommends that customers plan product upgrades to ensure that patches released through the Critical Patch Update program are available for the versions they are currently running.

Product releases that are not under Premier Support or Extended Support are not tested for the presence of vulnerabilities addressed by this Critical Patch Update. However, it is likely that earlier versions of affected releases are also affected by these vulnerabilities. As a result, Oracle recommends that customers upgrade to supported versions.

Database, Fusion Middleware, and Oracle Enterprise Manager products are patched in accordance with the Software Error Correction Support Policy explained in [My Oracle Support Note 209768.1](#). Please review the [Technical Support Policies](#) for further guidelines regarding support policies and phases of support.

## Credit Statement

The following people or organizations reported security vulnerabilities addressed by this Critical Patch Update to Oracle:

- Orich1 of Ant Security FG Lab: CVE-2021-2109

- Oxfoxone: CVE-2021-2068
- Alessandro Bosco of TIM S.p.A: CVE-2021-2005
- Alves Christopher of Telecom Nancy: CVE-2021-2006, CVE-2021-2010, CVE-2021-2011
- Amey Anekar of CyberCube Services: CVE-2021-2052
- Amy Tran: CVE-2021-2026, CVE-2021-2027
- Andrej Simko of Accenture: CVE-2021-2077, CVE-2021-2078, CVE-2021-2079, CVE-2021-2080, CVE-2021-2082, CVE-2021-2083, CVE-2021-2084, CVE-2021-2085, CVE-2021-2090, CVE-2021-2091, CVE-2021-2092, CVE-2021-2093, CVE-2021-2094, CVE-2021-2096, CVE-2021-2097, CVE-2021-2098, CVE-2021-2099, CVE-2021-2100, CVE-2021-2101, CVE-2021-2102, CVE-2021-2103, CVE-2021-2104, CVE-2021-2105, CVE-2021-2106, CVE-2021-2107, CVE-2021-2114, CVE-2021-2115, CVE-2021-2118
- Antonin B. of NCIA / NCSC: CVE-2021-2017
- Bui Duong from Viettel Cyber Security: CVE-2021-2013, CVE-2021-2049, CVE-2021-2050, CVE-2021-2051
- ChauUHM from Sacombank: CVE-2021-2062
- ChenNan Of Chaitin Security Research Lab: CVE-2021-2086, CVE-2021-2111, CVE-2021-2112, CVE-2021-2119, CVE-2021-2120, CVE-2021-2121, CVE-2021-2125, CVE-2021-2126, CVE-2021-2129, CVE-2021-2131
- Chi Tran: CVE-2021-2026, CVE-2021-2027
- Chris Barnabo: CVE-2021-2128
- ClOund Syclover Security Team: CVE-2020-14756
- Codeplutos of AntGroup FG Security Lab: CVE-2020-14756, CVE-2021-2075
- DoHyun Lee of VirtualBoBs: CVE-2021-2086
- Eddie Zhu of Beijing DBSEC Technology Co., Ltd: CVE-2021-2035, CVE-2021-2054
- Edoardo Predieri of TIM S.p.A: CVE-2021-2005
- Emad Al-Mousa working with Trend Micro Zero Day Initiative: CVE-2021-2054
- Esteban Montes Morales of Accenture: CVE-2021-2089
- Fabio Minarelli of TIM S.p.A: CVE-2021-2005
- Francesco Russo of TIM S.p.A: CVE-2021-2005
- Gaoning Pan of Zhejiang University & Ant Security Light-Year Lab: CVE-2021-2073, CVE-2021-2074, CVE-2021-2086, CVE-2021-2123, CVE-2021-2130
- Girlelecta: CVE-2021-2066, CVE-2021-2067, CVE-2021-2069
- Glassy of Alibaba Cloud Security Group: CVE-2021-2109
- Hangfan Zhang: CVE-2021-2030
- Julien Zhan of Telecom Nancy: CVE-2021-2006, CVE-2021-2010, CVE-2021-2011

- JungHyun Kim (jdoc01) of VirtualBoBs: CVE-2021-2124
- JunYoung Park and DongJun Shin of VirtualBoBs: CVE-2021-2127
- Khuyen Nguyen of secgit.com: CVE-2021-2023
- Kun Yang of Chaitin Security Research Lab: CVE-2021-2086, CVE-2021-2111, CVE-2021-2112, CVE-2021-2119, CVE-2021-2120, CVE-2021-2121, CVE-2021-2125, CVE-2021-2126, CVE-2021-2129, CVE-2021-2131
- Longofo of Knownsec 404 Team: CVE-2021-2109
- Luca Di Giuseppe of TIM S.p.A: CVE-2021-2005
- Lukasz Plonka: CVE-2021-2063
- Lukasz Rupala of ING Tech Poland: CVE-2021-2003
- Maciej Grabiec of ING Tech Poland: CVE-2021-2063
- Massimiliano Brolli of TIM S.p.A: CVE-2021-2005
- Nam HaBach of NightStOrm: CVE-2021-2034
- Omur Ugur of Turk Telekom: CVE-2021-2003
- Pawel Gocyla of ING Tech Poland: CVE-2021-2063
- Philippe Antoine of Telecom Nancy: CVE-2021-2006, CVE-2021-2010, CVE-2021-2011
- r00t4dm at Cloud-Penetrating Arrow Lab: CVE-2021-2109
- Roberto Suggi Liverani of NCIA / NCSC: CVE-2021-2017
- Rui Zhong: CVE-2021-2030
- Rémi Badonnel of Telecom Nancy: CVE-2021-2010, CVE-2021-2011
- Shimizu Kawasaki of DiDiGlobal Security Product Technology Department (Basic Security): CVE-2021-2109
- Thiscodecc: CVE-2021-2047
- Trung Le: CVE-2021-2026, CVE-2021-2027
- Tuan Anh Nguyen of Viettel Cyber Security: CVE-2021-2025, CVE-2021-2029
- Ved Prabhu: CVE-2021-2116, CVE-2021-2117
- Xiayu Zhang of Tencent Keen Security Lab: CVE-2021-2064
- Xingwei Lin of Ant Security Light-Year Lab: CVE-2021-2073, CVE-2021-2074, CVE-2021-2086, CVE-2021-2123, CVE-2021-2130
- Xu Yuanzhen of Alibaba Cloud Security Team: CVE-2021-2109
- Yakov Shafranovich of T. Rowe Price Associates, Inc.: CVE-2021-2018
- Yaoguang Chen of Ant Security Light-Year Lab: CVE-2021-2055
- Yongheng Chen: CVE-2021-2030

- Yu Wang of BMH Security Team: CVE-2021-2108
- Zhangyanyu of Chaitin Security Research Lab: CVE-2021-2131
- Zouhair Janatil-Idrissi of Telecom Nancy: CVE-2021-2006, CVE-2021-2010, CVE-2021-2011

## Security-In-Depth Contributors

Oracle acknowledges people who have contributed to our Security-In-Depth program (see [FAQ](#)). People are acknowledged for Security-In-Depth contributions if they provide information, observations or suggestions pertaining to security vulnerability issues that result in significant modification of Oracle code or documentation in future releases, but are not of such a critical nature that they are distributed in Critical Patch Updates.

In this Critical Patch Update, Oracle recognizes the following for contributions to Oracle's Security-In-Depth program.:

- Markus Loewe [2 reports]
- Salini Reus of Fiji Roads Authority

## On-Line Presence Security Contributors

Oracle acknowledges people who have contributed to our On-Line Presence Security program (see [FAQ](#)). People are acknowledged for contributions relating to Oracle's on-line presence if they provide information, observations or suggestions pertaining to security-related issues that result in significant modification to Oracle's on-line external-facing systems.

For this quarter, Oracle recognizes the following for contributions to Oracle's On-Line Presence Security program:

- Aakash Adhikari (dark\_haxor)
- Adam Willard [2 reports]
- Ahlan S
- Ahmed Alwardani
- Ahmed Ouahabi
- Anas Rahmani
- Ayushmaan Banerjee
- Boo
- Bradley Baker
- Bui Dinh Bao aka 0xd0ff9 of Zalo Security Team (VNG Corp)
- Bui Duc Anh Khoa aka khoabda of Zalo Security Team (VNG Corp)

- Christopher Hanlon
- Fabien B
- Flaviu Popescu
- Hamoud Al-Helmani [2 reports]
- Harpreet Singh
- Harshal S. Sharma
- Mahmoud EISayed
- Marwan Albahar [6 reports]
- Matt Bushey
- Mohammad Hosein Askari
- Phan Quan of VNPT Information Security Center (VNPT ISC)
- Prabharoop C.C. [2 reports]
- Prashant Saini
- Pratik Khalane
- Purbasha Ghosh
- Quan Doan of R&D Center - VinCSS LLC (a member of Vingroup) [5 reports]
- Ram Kumar
- Ratnadip Gajbhiye
- Robert Kulig
- Robert Lee Dick
- Sarwar Abbas
- Saurabh Dilip Mhatre
- Shailesh Kumavat
- Shivam Pandey
- Tuan Anh Nguyen of Viettel Cyber Security
- Virendra Singh Rathore

## Critical Patch Update Schedule

Critical Patch Updates are released on the Tuesday closest to the 17th day of January, April, July and October. The next four dates are:

- 20 April 2021
- 20 July 2021

- 19 October 2021
- 18 January 2022

## References

- [Oracle Critical Patch Updates, Security Alerts and Bulletins](#)
- [Critical Patch Update - January 2021 Documentation Map](#)
- [Oracle Critical Patch Updates and Security Alerts - Frequently Asked Questions](#)
- [Risk Matrix Definitions](#)
- [Use of Common Vulnerability Scoring System \(CVSS\) by Oracle](#)
- [English text version of the risk matrices](#)
- [CVRF XML version of the risk matrices](#)
- [Map of CVE to Advisory/Alert](#)
- [Software Error Correction Support Policy](#)
- [Oracle Lifetime support Policy](#)
- [JEP 290 Reference Blocklist Filter](#)

## Modification History

| Date             | Note   |
|------------------|--|
| 2021-February-22 | Rev 3. Updated the affected versions for CVE-2021-2047 |
| 2021-January-25  | Rev 2. Update to Credit Statements.                    |
| 2021-January-19  | Rev 1. Initial Release.                                |

## Oracle Database Server Risk Matrix

This Critical Patch Update contains 8 new security patches plus additional third party patches noted below for Oracle Database Products. 1 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. None of these patches are applicable to client-only installations, i.e., installations that do not have the Oracle Database Server installed. The English text form of this Risk Matrix can be found [here](#).

| CVE#                 | Component                                      | Package and/or Privilege Required                         | Protocol   | Remote Exploit without Auth.? | CVSS VERSION 3.1 RISK |               |                |             | I |
|----------------------|--|---|------------|-------------------------------|-----------------------|---------------|----------------|-------------|---|
|                      |  |   |            |                               | Base Score            | Attack Vector | Attack Complex | Privs Req'd |   |
| <b>CVE-2021-2035</b> | RDBMS Scheduler                                | Export Full Database                                      | Oracle Net | No                            | 8.8                   | Network       | Low            | Low         |   |
| <b>CVE-2021-2018</b> | Advanced Networking Option                     | None  | Oracle Net | Yes                           | 8.3                   | Network       | High           | None        | R |
| <b>CVE-2021-2054</b> | RDBMS Sharding                                 | Create Any Procedure, Create Any View, Create Any Trigger | Oracle Net | No                            | 7.2                   | Network       | Low            | High        |   |
| <b>CVE-2021-2116</b> | Oracle Application Express Opportunity Tracker | Valid User Account  | HTTP       | No                            | 5.4                   | Network       | Low            | Low         | R |
| <b>CVE-2021-2117</b> | Oracle Application Express Survey Builder      | Valid User Account  | HTTP       | No                            | 5.4                   | Network       | Low            | Low         | R |
| <b>CVE-2021-1993</b> | Java VM  | Create Session  | Oracle Net | No                            | 4.8                   | Network       | High           | Low         | R |
| <b>CVE-2021-2045</b> | Oracle Text                                    | Create Session  | Oracle Net | No                            | 3.1                   | Network       | High           | Low         |   |
| <b>CVE-2021-2000</b> | Unified Audit                                  | SYS Account   | Oracle Net | No                            | 2.4                   | Network       | Low            | High        | R |

**Notes:**

1. CVE-2021-2018 affects Windows platform only.

**Additional patches are included in this Critical Patch Update for the following non-exploitable CVEs in this Oracle product family:**

- Perl: CVE-2020-10878, CVE-2020-10543 and CVE-2020-12723.

## Oracle Global Lifecycle Management Risk Matrix

This Critical Patch Update contains no new security patches but does include third party patches noted below for Oracle Global Lifecycle Management. Please refer to previous Critical Patch Update Advisories if the last Critical Patch Update was not applied for Oracle Global Lifecycle Management. The English text form of this Risk Matrix can be found [here](#).

| CVE#   | Product | Component | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RISK (see <a href="#">Risk Matrix</a> ) |               |                |             |               |       |
|--|---------|-----------|----------|-------------------------------|--|---------------|----------------|-------------|---------------|-------|
|  |         |           |          |                               | Base Score   | Attack Vector | Attack Complex | Privs Req'd | User Interact | Scope |
| There are no exploitable vulnerabilities for these product<br>Third party patches for non-exploitable CVEs are noted below |         |           |          |                               |  |               |                |             |               |       |

**Additional patches are included in this Critical Patch Update for the following non-exploitable CVEs in this Oracle product family:**

- Oracle Global Lifecycle Manager
  - Patch Installer (Apache Commons Compress): CVE-2019-12402.

## Oracle Secure Backup Risk Matrix

This Critical Patch Update contains no new security patches but does include third party patches noted below for Oracle Secure Backup. Please refer to previous Critical Patch Update Advisories if the last Critical Patch Update was not applied for Oracle Secure Backup. The English text form of this Risk Matrix can be found [here](#).

| CVE#   | Product | Component | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RISK (see <a href="#">Risk Matrix</a> ) |               |                |             |               |       |
|--|---------|-----------|----------|-------------------------------|--|---------------|----------------|-------------|---------------|-------|
|  |         |           |          |                               | Base Score   | Attack Vector | Attack Complex | Privs Req'd | User Interact | Scope |
| There are no exploitable vulnerabilities for these product<br>Third party patches for non-exploitable CVEs are noted below |         |           |          |                               |  |               |                |             |               |       |

## Additional patches are included in this Critical Patch Update for the following non-exploitable CVEs in this Oracle product family:

- Oracle Secure Backup
  - User Interface (PHP): CVE-2020-7064.
  - Web Server (Apache HTTP Server): CVE-2020-11984, CVE-2020-11993 and CVE-2020-9490.

## Oracle Communications Applications Risk Matrix

This Critical Patch Update contains 8 new security patches for Oracle Communications Applications. 6 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product   | Component                                  | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |
|-----------------------|---|--|----------|-------------------------------|------------------|---------------|----------------|
|                       |   |  |          |                               | Base Score       | Attack Vector | Attack Complex |
| <b>CVE-2020-14195</b> | Oracle Communications Calendar Server               | REST API (jackson-databind)                | HTTP     | Yes                           | 8.1              | Network       | High           |
| <b>CVE-2020-14195</b> | Oracle Communications Contacts Server               | REST API (jackson-databind)                | HTTP     | Yes                           | 8.1              | Network       | High           |
| <b>CVE-2019-17566</b> | Oracle Communications MetaSolv Solution             | Print Preview (Apache Batik)               | HTTP     | Yes                           | 7.5              | Network       | Low            |
| <b>CVE-2020-13871</b> | Oracle Communications Network Charging and Control  | Common (SQLite)                            | SQL      | Yes                           | 7.5              | Network       | Low            |
| <b>CVE-2019-10086</b> | Oracle Communications BRM - Elastic Charging Engine | Coherence Query (Apache Commons BeanUtils) | TCP/IP   | Yes                           | 7.3              | Network       | Low            |

| CVE#                  | Product   | Component  | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                   |
|-----------------------|---|--|----------|-------------------------------|------------------|---------------|-------------------|
|                       |   |  |          |                               | Base Score       | Attack Vector | Attack Complexity |
| <b>CVE-2019-10086</b> | Oracle Communications MetaSolv Solution             | Online Help (Apache Commons BeanUtils)                   | HTTP     | Yes                           | 7.3              | Network       | Low               |
| <b>CVE-2020-5421</b>  | Oracle Communications BRM - Elastic Charging Engine | Orchestration, Processor and Messages (Spring Framework) | TCP/IP   | No                            | 6.5              | Network       | High              |
| <b>CVE-2020-1945</b>  | Oracle Communications ASAP                          | Core (Apache Ant)  | None     | No                            | 6.2              | Local         | Low               |

#### Additional CVEs addressed are:

- The patch for CVE-2020-13871 also addresses CVE-2020-15358.
- The patch for CVE-2020-14195 also addresses CVE-2020-14060, CVE-2020-14061 and CVE-2020-14062.
- The patch for CVE-2020-1945 also addresses CVE-2017-5645.

## Oracle Communications Risk Matrix

This Critical Patch Update contains 12 new security patches for Oracle Communications. 7 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                                  | Component                         | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                   |
|-----------------------|--|-----------------------------------|----------|-------------------------------|------------------|---------------|-------------------|
|                       |  |                                   |          |                               | Base Score       | Attack Vector | Attack Complexity |
| <b>CVE-2019-7164</b>  | Oracle Communications Operations Monitor | ORMB DB Query in VSP (SQLAlchemy) | HTTP     | Yes                           | 9.8              | Network       | Low               |
| <b>CVE-2020-24750</b> | Oracle Communications Diameter           | IDIH (jackson-databind)           | HTTP     | Yes                           | 8.1              | Network       | High              |

| CVE#                  | Product   | Component                             | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                   |
|-----------------------|---|---------------------------------------|----------|-------------------------------|------------------|---------------|-------------------|
|                       |   |                                       |          |                               | Base Score       | Attack Vector | Attack Complexity |
|                       | Signaling Router (DSR)                                |                                       |          |                               |                  |               |                   |
| <b>CVE-2020-27216</b> | Oracle Communications Application Session Controller  | Core (Eclipse Jetty)                  | None     | No                            | 7.8              | Local         | Low               |
| <b>CVE-2020-27216</b> | Oracle Communications Element Manager                 | REST API (Eclipse Jetty)              | None     | No                            | 7.8              | Local         | Low               |
| <b>CVE-2020-14147</b> | Oracle Communications Operations Monitor              | In-Memory DB for FDP/VSP (Redis)      | HTTP     | No                            | 7.7              | Network       | Low               |
| <b>CVE-2019-17566</b> | Oracle Communications Application Session Controller  | Core (Apache Batik)                   | HTTP     | Yes                           | 7.5              | Network       | Low               |
| <b>CVE-2020-11080</b> | Oracle Enterprise Communications Broker               | System (nghttp2)                      | HTTP     | Yes                           | 7.5              | Network       | Low               |
| <b>CVE-2019-10086</b> | Oracle Communications Diameter Signaling Router (DSR) | IDIH (Apache Commons BeanUtils)       | HTTP     | Yes                           | 7.3              | Network       | Low               |
| <b>CVE-2019-10086</b> | Oracle SD-WAN Edge                                    | Management (Apache Commons BeanUtils) | HTTP     | Yes                           | 7.3              | Network       | Low               |
| <b>CVE-2020-10723</b> | Oracle Enterprise Communications Broker               | System (DPDK)                         | None     | No                            | 6.7              | Local         | Low               |

| CVE#                 | Product  | Component               | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3 |               |                |
|----------------------|--|-------------------------|----------|-------------------------------|----------------|---------------|----------------|
|                      |  |                         |          |                               | Base Score     | Attack Vector | Attack Complex |
| <b>CVE-2020-5421</b> | Oracle Communications Session Report Manager                         | Core (Spring Framework) | HTTP     | No                            | 6.5            | Network       | High           |
| <b>CVE-2019-1559</b> | Oracle Communications Performance Intelligence Center (PIC) Software | Security (OpenSSL)      | HTTPS    | Yes                           | 5.9            | Network       | High           |

### Additional CVEs addressed are:

- The patch for CVE-2019-1559 also addresses CVE-2018-0732.
- The patch for CVE-2019-7164 also addresses CVE-2019-7548.
- The patch for CVE-2020-10723 also addresses CVE-2020-10722, CVE-2020-10724, CVE-2020-10725 and CVE-2020-10726.
- The patch for CVE-2020-11080 also addresses CVE-2019-9511 and CVE-2019-9513.
- The patch for CVE-2020-24750 also addresses CVE-2020-24616 and CVE-2020-9546.

## Oracle Construction and Engineering Risk Matrix

This Critical Patch Update contains 7 new security patches for Oracle Construction and Engineering. 5 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                   | Component        | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3 |               |                | Pr |
|-----------------------|---------------------------|------------------|----------|-------------------------------|----------------|---------------|----------------|----|
|                       |                           |                  |          |                               | Base Score     | Attack Vector | Attack Complex |    |
| <b>CVE-2020-25020</b> | Primavera Unifier         | Platform (MPXJ)  | HTTP     | Yes                           | 9.8            | Network       | Low            | Ne |
| <b>CVE-2019-17566</b> | Instantis EnterpriseTrack | Dashboard module | HTTP     | Yes                           | 7.5            | Network       | Low            | Ne |

| CVE#                  | Product  | Component                       | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3 |               |                |       |
|-----------------------|--|---------------------------------|----------|-------------------------------|----------------|---------------|----------------|-------|
|                       |  |                                 |          |                               | Base Score     | Attack Vector | Attack Complex | Pr Re |
|                       |  | (Apache Batik)                  |          |                               |                |               |                |       |
| <b>CVE-2020-11979</b> | Primavera Gateway                                    | Admin (Apache Ant)              | HTTP     | Yes                           | 7.5            | Network       | Low            | No    |
| <b>CVE-2020-11979</b> | Primavera Unifier                                    | Core, Config (Apache Ant)       | HTTP     | Yes                           | 7.5            | Network       | Low            | No    |
| <b>CVE-2019-10086</b> | Primavera Unifier                                    | Core (Apache Commons BeanUtils) | HTTP     | Yes                           | 7.3            | Network       | Low            | No    |
| <b>CVE-2020-5421</b>  | Primavera Gateway                                    | Admin (Spring Framework)        | HTTP     | No                            | 6.5            | Network       | High           | L     |
| <b>CVE-2020-5421</b>  | Primavera P6 Enterprise Project Portfolio Management | Web access (Spring Framework)   | HTTP     | No                            | 6.5            | Network       | High           | L     |

#### Additional CVEs addressed are:

- The patch for CVE-2020-25020 also addresses CVE-2020-35460.

## Oracle E-Business Suite Risk Matrix

This Critical Patch Update contains 31 new security patches for Oracle E-Business Suite. 29 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited

over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

Oracle E-Business Suite products include Oracle Database and Oracle Fusion Middleware components that are affected by the vulnerabilities listed in the Oracle Database and Oracle Fusion Middleware sections. The exposure of Oracle E-Business Suite products is dependent on the Oracle Database and Oracle Fusion Middleware versions being used. Oracle Database and Oracle Fusion Middleware security updates are not listed in the Oracle E-Business Suite risk matrix. However, since vulnerabilities affecting Oracle Database and Oracle Fusion Middleware versions may affect Oracle E-Business Suite products, Oracle recommends that customers apply the January 2021 Critical Patch Update to the Oracle Database and Oracle Fusion Middleware components of Oracle E-Business Suite. For information on what patches need to be applied to your environments, refer to Oracle E-Business Suite Release 12 Critical Patch Update Knowledge Document (January 2021), [My Oracle Support Note 27372011](#).

| CVE#                 | Product                             | Component                     | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                   |                     |
|----------------------|-------------------------------------|-------------------------------|----------|-------------------------------|------------------|---------------|-------------------|---------------------|
|                      |                                     |                               |          |                               | Base Score       | Attack Vector | Attack Complexity | Privileges Required |
| <b>CVE-2021-2029</b> | Oracle Scripting                    | Miscellaneous                 | HTTP     | Yes                           | 9.8              | Network       | Low               | None                |
| <b>CVE-2021-2100</b> | Oracle One-to-One Fulfillment       | Print Server                  | HTTP     | Yes                           | 9.1              | Network       | Low               | None                |
| <b>CVE-2021-2101</b> | Oracle One-to-One Fulfillment       | Print Server                  | HTTP     | Yes                           | 9.1              | Network       | Low               | None                |
| <b>CVE-2021-2093</b> | Oracle Common Applications          | CRM User Management Framework | HTTP     | Yes                           | 8.2              | Network       | Low               | None                |
| <b>CVE-2021-2114</b> | Oracle Common Applications Calendar | Applications Calendar         | HTTP     | Yes                           | 8.2              | Network       | Low               | None                |
| <b>CVE-2021-2034</b> | Oracle Common Applications Calendar | Tasks                         | HTTP     | Yes                           | 8.2              | Network       | Low               | None                |
| <b>CVE-2021-2084</b> | Oracle CRM Technical Foundation     | Preferences                   | HTTP     | Yes                           | 8.2              | Network       | Low               | None                |

| CVE#                 | Product                             | Component       | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |       |
|----------------------|-------------------------------------|-----------------|----------|-------------------------------|------------------|---------------|----------------|-------|
|                      |                                     |                 |          |                               | Base Score       | Attack Vector | Attack Complex | Pr Re |
| <b>CVE-2021-2085</b> | Oracle CRM Technical Foundation     | Preferences     | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2092</b> | Oracle CRM Technical Foundation     | Preferences     | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2099</b> | Oracle CRM Technical Foundation     | Preferences     | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2105</b> | Oracle Customer Interaction History | Outcome-Result  | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2106</b> | Oracle Customer Interaction History | Outcome-Result  | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2107</b> | Oracle Customer Interaction History | Outcome-Result  | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2090</b> | Oracle Email Center                 | Message Display | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2098</b> | Oracle Email Center                 | Message Display | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2089</b> | Oracle iStore                       | Runtime Catalog | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2077</b> | Oracle iStore                       | Shopping Cart   | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2082</b> | Oracle iStore                       | Shopping Cart   | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2096</b> | Oracle iStore                       | Shopping Cart   | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |

| CVE#                 | Product                             | Component                | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |       |
|----------------------|-------------------------------------|--------------------------|----------|-------------------------------|------------------|---------------|----------------|-------|
|                      |                                     |                          |          |                               | Base Score       | Attack Vector | Attack Complex | Pr Re |
| <b>CVE-2021-2097</b> | Oracle iSupport                     | Profile                  | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2083</b> | Oracle iSupport                     | User Responsibilities    | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2026</b> | Oracle Marketing                    | Marketing Administration | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2027</b> | Oracle Marketing                    | Marketing Administration | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2118</b> | Oracle Marketing                    | Marketing Administration | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2094</b> | Oracle One-to-One Fulfillment       | Print Server             | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2091</b> | Oracle Scripting                    | Miscellaneous            | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2015</b> | Oracle Workflow                     | Worklist                 | HTTP     | Yes                           | 8.2              | Network       | Low            | Nc    |
| <b>CVE-2021-2115</b> | Oracle Common Applications Calendar | Tasks                    | HTTP     | No                            | 7.6              | Network       | Low            | Lc    |
| <b>CVE-2021-2059</b> | Oracle iStore                       | Web interface            | HTTP     | Yes                           | 5.3              | Network       | Low            | Nc    |
| <b>CVE-2021-2023</b> | Oracle Installed Base               | APIs                     | HTTP     | Yes                           | 4.7              | Network       | Low            | Nc    |
| <b>CVE-2021-2017</b> | Oracle User Management              | Proxy User Delegation    | HTTP     | No                            | 4.3              | Network       | Low            | Lc    |

# Oracle Enterprise Manager Risk Matrix

This Critical Patch Update contains 8 new security patches for Oracle Enterprise Manager. All of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. None of these patches are applicable to client-only installations, i.e., installations that do not have Oracle Enterprise Manager installed. The English text form of this Risk Matrix can be found [here](#).

Oracle Enterprise Manager products include Oracle Database and Oracle Fusion Middleware components that are affected by the vulnerabilities listed in the Oracle Database and Oracle Fusion Middleware sections. The exposure of Oracle Enterprise Manager products is dependent on the Oracle Database and Oracle Fusion Middleware versions being used. Oracle Database and Oracle Fusion Middleware security updates are not listed in the Oracle Enterprise Manager risk matrix. However, since vulnerabilities affecting Oracle Database and Oracle Fusion Middleware versions may affect Oracle Enterprise Manager products, Oracle recommends that customers apply the January 2021 Critical Patch Update to the Oracle Database and Oracle Fusion Middleware components of Enterprise Manager. For information on what patches need to be applied to your environments, refer to Critical Patch Update January 2021 Patch Availability Document for Oracle Products, [My Oracle Support Note 2725756.1](#).

| CVE#                    | Product                          | Component                                       | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |         |
|-------------------------|----------------------------------|---|----------|-------------------------------|------------------|---------------|----------------|---------|
|                         |                                  |   |          |                               | Base Score       | Attack Vector | Attack Complex | Pri Rec |
| <b>CVE-2019-13990</b>   | Enterprise Manager Base Platform | Connector Framework (Quartz)                    | HTTP     | Yes                           | 9.8              | Network       | Low            | Noi     |
| <b>CVE-2020-11973</b>   | Enterprise Manager Base Platform | Reporting Framework (Apache Camel)              | HTTP     | Yes                           | 9.8              | Network       | Low            | Noi     |
| <b>CVE-2016-1000031</b> | Enterprise Manager Base Platform | Reporting Framework (Apache Commons FileUpload) | HTTP     | Yes                           | 9.8              | Network       | Low            | Noi     |
| <b>CVE-2020-11984</b>   | Enterprise Manager Ops Center    | Control Proxy (Apache HTTP Server)              | HTTP     | Yes                           | 9.8              | Network       | Low            | Noi     |

| CVE#                  | Product                                    | Component                          | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |         |
|-----------------------|--|------------------------------------|----------|-------------------------------|------------------|---------------|----------------|---------|
|                       |  |                                    |          |                               | Base Score       | Attack Vector | Attack Complex | Pri Rec |
| <b>CVE-2020-10683</b> | Oracle Application Testing Suite           | Load Testing for Web Apps (dom4j)  | HTTP     | Yes                           | 9.8              | Network       | Low            | Noi     |
| <b>CVE-2018-15756</b> | Enterprise Manager for Fusion Applications | Topology Viewer (Spring Framework) | HTTP     | Yes                           | 7.5              | Network       | Low            | Noi     |
| <b>CVE-2020-11022</b> | Oracle Application Testing Suite           | Load Testing for Web Apps (jQuery) | HTTP     | Yes                           | 6.1              | Network       | Low            | Noi     |
| <b>CVE-2015-4000</b>  | Enterprise Manager Ops Center              | User Interface (OpenSSL)           | HTTPS    | Yes                           | 3.7              | Network       | High           | Noi     |

#### Additional CVEs addressed are:

- The patch for CVE-2016-1000031 also addresses CVE-2018-11775 and CVE-2019-0188.
- The patch for CVE-2018-15756 also addresses CVE-2018-1258.
- The patch for CVE-2019-13990 also addresses CVE-2019-5427.
- The patch for CVE-2020-11022 also addresses CVE-2020-11023.
- The patch for CVE-2020-11973 also addresses CVE-2019-0188, CVE-2020-11971 and CVE-2020-11972.
- The patch for CVE-2020-11984 also addresses CVE-2020-11993 and CVE-2020-9490.

## Oracle Financial Services Applications Risk Matrix

This Critical Patch Update contains 50 new security patches for Oracle Financial Services Applications. 41 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product   | Component             | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |               |
|-----------------------|---|-----------------------|----------|-------------------------------|------------------|---------------|----------------|---------------|
|                       |   |                       |          |                               | Base Score       | Attack Vector | Attack Complex | Prerequisites |
| <b>CVE-2020-11612</b> | Oracle Banking Corporate Lending Process Management | Core (Netty)          | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-11612</b> | Oracle Banking Credit Facilities Process Management | Core (Netty)          | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2019-10744</b> | Oracle Banking Extensibility Workbench              | Core (Lodash)         | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-8174</b>  | Oracle Banking Extensibility Workbench              | Core (Node.js)        | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-11612</b> | Oracle Banking Liquidity Management                 | Common (Netty)        | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-11612</b> | Oracle Banking Payments                             | Payments Core (Netty) | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-11612</b> | Oracle Banking Supply Chain Finance                 | Core (Netty)          | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-11612</b> | Oracle Banking Trade Finance Process Management     | Dashboard (Netty)     | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-11612</b> | Oracle Banking Virtual                              | Common Core (Netty)   | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |

| CVE#                  | Product  | Component                            | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |               |
|-----------------------|--|--------------------------------------|----------|-------------------------------|------------------|---------------|----------------|---------------|
|                       |  |                                      |          |                               | Base Score       | Attack Vector | Attack Complex | Prerequisites |
|                       | Account Management   |                                      |          |                               |                  |               |                |               |
| <b>CVE-2019-3773</b>  | Oracle Financial Services Analytical Applications Infrastructure | Infrastructure (Spring Web Services) | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2019-0230</b>  | Oracle Financial Services Data Integration Hub                   | User Interface (Apache Struts)       | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2019-0230</b>  | Oracle Financial Services Market Risk Measurement and Management | User Interface (Apache Struts)       | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-11612</b> | Oracle FLEXCUBE Universal Banking                                | Infrastructure (Netty)               | HTTP     | Yes                           | 9.8              | Network       | Low            | N             |
| <b>CVE-2020-1945</b>  | Oracle Banking Liquidity Management                              | Common (Apache Ant)                  | HTTP     | Yes                           | 9.1              | Network       | Low            | N             |
| <b>CVE-2020-27216</b> | Oracle FLEXCUBE Core Banking                                     | Securities (Eclipse Jetty)           | None     | No                            | 7.8              | Local         | Low            | L             |
| <b>CVE-2019-12399</b> | Oracle Banking Corporate Lending Process Management              | Core (Apache Kafka)                  | HTTP     | Yes                           | 7.5              | Network       | Low            | N             |
| <b>CVE-2019-12399</b> | Oracle Banking Credit Facilities                                 | Core (Apache Kafka)                  | HTTP     | Yes                           | 7.5              | Network       | Low            | N             |

| CVE#                  | Product   | Component                                   | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3 |               |                |     |
|-----------------------|---|---|----------|-------------------------------|----------------|---------------|----------------|-----|
|                       |   |   |          |                               | Base Score     | Attack Vector | Attack Complex | P R |
|                       | Process Management                              |   |          |                               |                |               |                |     |
| <b>CVE-2019-12399</b> | Oracle Banking Liquidity Management             | Common (Apache Kafka)                       | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |
| <b>CVE-2019-12399</b> | Oracle Banking Payments                         | Payments Core (Apache Kafka)                | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |
| <b>CVE-2020-11979</b> | Oracle Banking Platform                         | Installer (Apache Ant)                      | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |
| <b>CVE-2019-12402</b> | Oracle Banking Platform                         | Party, Financials (Apache Commons Compress) | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |
| <b>CVE-2019-12399</b> | Oracle Banking Platform                         | Product Manufacturing (Apache Kafka)        | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |
| <b>CVE-2019-12399</b> | Oracle Banking Supply Chain Finance             | Core (Apache Kafka)                         | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |
| <b>CVE-2019-12399</b> | Oracle Banking Trade Finance Process Management | Dashboard (Apache Kafka)                    | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |
| <b>CVE-2019-12399</b> | Oracle Banking Virtual Account Management       | Common Core (Apache Kafka)                  | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |
| <b>CVE-2020-11979</b> | Oracle Financial Services Analytical            | Infrastructure (Apache Ant)                 | HTTP     | Yes                           | 7.5            | Network       | Low            | N   |

| CVE#                  | Product  | Component                                 | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |               |
|-----------------------|--|---|----------|-------------------------------|------------------|---------------|----------------|---------------|
|                       |  |   |          |                               | Base Score       | Attack Vector | Attack Complex | Prerequisites |
|                       | Applications Infrastructure                                      |   |          |                               |                  |               |                |               |
| <b>CVE-2019-12399</b> | Oracle Financial Services Analytical Applications Infrastructure | Infrastructure (Apache Kafka)             | HTTP     | Yes                           | 7.5              | Network       | Low            | N             |
| <b>CVE-2019-12399</b> | Oracle FLEXCUBE Universal Banking                                | Infrastructure (Apache Kafka)             | HTTP     | Yes                           | 7.5              | Network       | Low            | N             |
| <b>CVE-2019-10086</b> | Oracle Financial Services Analytical Applications Infrastructure | Infrastructure (Apache Commons BeanUtils) | HTTP     | Yes                           | 7.3              | Network       | Low            | N             |
| <b>CVE-2019-10086</b> | Oracle Financial Services Asset Liability Management             | Core (Apache Commons BeanUtils)           | HTTP     | Yes                           | 7.3              | Network       | Low            | N             |
| <b>CVE-2019-10086</b> | Oracle Financial Services Funds Transfer Pricing                 | Core (Apache Commons BeanUtils)           | HTTP     | Yes                           | 7.3              | Network       | Low            | N             |
| <b>CVE-2019-10086</b> | Oracle Financial Services Market Risk Measurement and Management | Core (Apache Commons BeanUtils)           | HTTP     | Yes                           | 7.3              | Network       | Low            | N             |
| <b>CVE-2019-10086</b> | Oracle Financial Services Profitability Management               | Core (Apache Commons BeanUtils)           | HTTP     | Yes                           | 7.3              | Network       | Low            | N             |

| CVE#                  | Product  | Component                         | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |                     |
|-----------------------|--|-----------------------------------|----------|-------------------------------|------------------|---------------|----------------|---------------------|
|                       |  |                                   |          |                               | Base Score       | Attack Vector | Attack Complex | Privileges Required |
| <b>CVE-2019-10086</b> | Oracle Insurance Allocation Manager for Enterprise Profitability | Core (Apache Commons BeanUtils)   | HTTP     | Yes                           | 7.3              | Network       | Low            | N                   |
| <b>CVE-2020-5408</b>  | Oracle Banking Corporate Lending Process Management              | Core (Spring Security)            | HTTP     | No                            | 6.5              | Network       | Low            | L                   |
| <b>CVE-2020-5408</b>  | Oracle Banking Credit Facilities Process Management              | Core (Spring Security)            | HTTP     | No                            | 6.5              | Network       | Low            | L                   |
| <b>CVE-2020-5408</b>  | Oracle Banking Liquidity Management                              | Common (Spring Security)          | HTTP     | No                            | 6.5              | Network       | Low            | L                   |
| <b>CVE-2020-5408</b>  | Oracle Banking Supply Chain Finance                              | Core (Spring Security)            | HTTP     | No                            | 6.5              | Network       | Low            | L                   |
| <b>CVE-2020-5408</b>  | Oracle Banking Trade Finance Process Management                  | Dashboard (Spring Security)       | HTTP     | No                            | 6.5              | Network       | Low            | L                   |
| <b>CVE-2020-5408</b>  | Oracle Banking Virtual Account Management                        | Common Core (Spring Security)     | HTTP     | No                            | 6.5              | Network       | Low            | L                   |
| <b>CVE-2020-5421</b>  | Oracle Financial Services Analytical                             | Infrastructure (Spring Framework) | HTTP     | No                            | 6.5              | Network       | High           | L                   |

| CVE#                  | Product   | Component                              | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |               |
|-----------------------|---|--|----------|-------------------------------|------------------|---------------|----------------|---------------|
|                       |   |  |          |                               | Base Score       | Attack Vector | Attack Complex | Prerequisites |
|                       | Applications Infrastructure                         |  |          |                               |                  |               |                |               |
| <b>CVE-2019-11269</b> | Oracle Banking Corporate Lending Process Management | Core (Spring Security Oauth)           | HTTP     | Yes                           | 5.4              | Network       | Low            | N             |
| <b>CVE-2019-11269</b> | Oracle Banking Credit Facilities Process Management | Core (Spring Security Oauth)           | HTTP     | Yes                           | 5.4              | Network       | Low            | N             |
| <b>CVE-2019-11269</b> | Oracle Banking Liquidity Management                 | Common (Spring Security Oauth)         | HTTP     | Yes                           | 5.4              | Network       | Low            | N             |
| <b>CVE-2019-11269</b> | Oracle Banking Payments                             | Payments Core (Spring Security Oauth)  | HTTP     | Yes                           | 5.4              | Network       | Low            | N             |
| <b>CVE-2019-11269</b> | Oracle Banking Supply Chain Finance                 | Core (Spring Security Oauth)           | HTTP     | Yes                           | 5.4              | Network       | Low            | N             |
| <b>CVE-2019-11269</b> | Oracle Banking Trade Finance Process Management     | Dashboard (Spring Security Oauth)      | HTTP     | Yes                           | 5.4              | Network       | Low            | N             |
| <b>CVE-2019-11269</b> | Oracle Banking Virtual Account Management           | Common Core (Spring Security Oauth)    | HTTP     | Yes                           | 5.4              | Network       | Low            | N             |
| <b>CVE-2019-11269</b> | Oracle FLEXCUBE Universal Banking                   | Infrastructure (Spring Security Oauth) | HTTP     | Yes                           | 5.4              | Network       | Low            | N             |

| CVE#                 | Product  | Component         | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RISK |               |                |             |
|----------------------|--|-------------------|----------|-------------------------------|-----------------------|---------------|----------------|-------------|
|                      |  |                   |          |                               | Base Score            | Attack Vector | Attack Complex | Privs Req'd |
| <b>CVE-2021-2113</b> | Oracle Financial Services Revenue Management and Billing | On Demand Billing | HTTP     | No                            | 4.3                   | Network       | Low            | Low         |

### Additional CVEs addressed are:

- The patch for CVE-2019-0230 also addresses CVE-2019-0233 and CVE-2020-17530.
- The patch for CVE-2019-11269 also addresses CVE-2019-3778.
- The patch for CVE-2020-1945 also addresses CVE-2020-11979.
- The patch for CVE-2020-5408 also addresses CVE-2020-5407.
- The patch for CVE-2020-8174 also addresses CVE-2020-10531, CVE-2020-11080 and CVE-2020-8172.

## Oracle Food and Beverage Applications Risk Matrix

This Critical Patch Update contains 2 new security patches for Oracle Food and Beverage Applications. 1 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                 | Product                                    | Component                        | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RISK |               |                |             |        |
|----------------------|--|----------------------------------|----------|-------------------------------|-----------------------|---------------|----------------|-------------|--------|
|                      |  |                                  |          |                               | Base Score            | Attack Vector | Attack Complex | Privs Req'd | Impact |
| <b>CVE-2018-1285</b> | Oracle Hospitality Symphony                | Simphony Server (Apache log4net) | HTTP     | Yes                           | 9.8                   | Network       | Low            | None        | High   |
| <b>CVE-2021-1997</b> | Oracle Hospitality Reporting and Analytics | Report                           | HTTP     | No                            | 8.1                   | Network       | Low            | Low         | High   |

## Oracle Fusion Middleware Risk Matrix

This Critical Patch Update contains 60 new security patches plus additional third party patches noted below for Oracle Fusion Middleware. 47 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

**Please note that the Security Alert patches for Oracle WebLogic Server: [CVE-2020-14750](#) are included in this Critical Patch Update. Customers are strongly advised to apply this Critical Patch Update.**

| CVE#                    | Product                                   | Component                                    | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|-------------------------|---|--|----------|-------------------------------|--------------|---------------|----------------|
|                         |   |  |          |                               | Base Score   | Attack Vector | Attack Complex |
| <b>CVE-2019-10173</b>   | Oracle BAM (Business Activity Monitoring) | General (Xstream)                            | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-10683</b>   | Oracle Business Process Management Suite  | Installer (dom4j)                            | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-14756</b>   | Oracle Coherence                          | Core Components                              | IIOp, T3 | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2015-8965</b>    | Oracle Data Integrator                    | Install, config, upgrade (Rogue Wave JViews) | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-10683</b>   | Oracle Data Integrator                    | Runtime Java agent for ODI (dom4j)           | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2016-1000031</b> | Oracle Enterprise Data Quality            | General (Apache Commons FileUpload)          | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-10683</b>   | Oracle Enterprise                         | General (dom4j)                              | HTTP     | Yes                           | 9.8          | Network       | Low            |

| CVE#                  | Product  | Component                                    | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|-----------------------|--|--|----------|-------------------------------|--------------|---------------|----------------|
|                       |  |  |          |                               | Base Score   | Attack Vector | Attack Complex |
|                       | Data Quality                                   |  |          |                               |              |               |                |
| <b>CVE-2020-11998</b> | Oracle Enterprise Repository                   | Security Subsystem (Apache ActiveMQ)         | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-10683</b> | Oracle WebCenter Portal                        | Portlet Services (dom4j)                     | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2019-17195</b> | Oracle WebLogic Server                         | Core Components (Connect2id Nimbus JOSE+JWT) | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2021-1994</b>  | Oracle WebLogic Server                         | Web Services                                 | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2021-2047</b>  | Oracle WebLogic Server                         | Core Components                              | IIOp, T3 | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2021-2064</b>  | Oracle WebLogic Server                         | Core Components                              | IIOp, T3 | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2021-2108</b>  | Oracle WebLogic Server                         | Core Components                              | IIOp, T3 | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2021-2075</b>  | Oracle WebLogic Server                         | Samples                                      | IIOp, T3 | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-1945</b>  | Oracle Real-Time Decision Server               | Decision Studio (Apache Ant)                 | HTTP     | Yes                           | 9.1          | Network       | Low            |
| <b>CVE-2020-5421</b>  | Oracle Endeca Information Discovery Integrator | Integrator ETL (Spring Framework)            | HTTP     | No                            | 8.8          | Network       | Low            |

| CVE#                 | Product   | Component              | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|----------------------|---|------------------------|----------|-------------------------------|--------------|---------------|----------------|
|                      |   |                        |          |                               | Base Score   | Attack Vector | Attack Complex |
| <b>CVE-2021-2066</b> | Oracle Outside In Technology                    | Outside In Filters     | HTTP     | Yes                           | 8.6          | Network       | Low            |
| <b>CVE-2021-2067</b> | Oracle Outside In Technology                    | Outside In Filters     | HTTP     | Yes                           | 8.6          | Network       | Low            |
| <b>CVE-2021-2068</b> | Oracle Outside In Technology                    | Outside In Filters     | HTTP     | Yes                           | 8.6          | Network       | Low            |
| <b>CVE-2021-2069</b> | Oracle Outside In Technology                    | Outside In Filters     | HTTP     | Yes                           | 8.6          | Network       | Low            |
| <b>CVE-2021-2025</b> | Oracle Business Intelligence Enterprise Edition | Analytics Web General  | HTTP     | Yes                           | 8.2          | Network       | Low            |
| <b>CVE-2021-2041</b> | Oracle Business Intelligence Enterprise Edition | Installation           | HTTP     | Yes                           | 8.1          | Network       | High           |
| <b>CVE-2021-2049</b> | Oracle BI Publisher                             | Administration         | HTTP     | No                            | 7.6          | Network       | Low            |
| <b>CVE-2021-2013</b> | Oracle BI Publisher                             | BI Publisher Security  | HTTP     | No                            | 7.6          | Network       | Low            |
| <b>CVE-2021-2050</b> | Oracle BI Publisher                             | E-Business Suite - XDO | HTTP     | No                            | 7.6          | Network       | Low            |
| <b>CVE-2021-2051</b> | Oracle BI Publisher                             | E-Business Suite - XDO | HTTP     | No                            | 7.6          | Network       | Low            |
| <b>CVE-2021-2062</b> | Oracle BI Publisher                             | Web Server             | HTTP     | No                            | 7.6          | Network       | Low            |

| CVE#                  | Product  | Component   | Protocol | Remote Exploit without Auth.? | CVSS VERSION |                  |                |
|-----------------------|--|---|----------|-------------------------------|--------------|------------------|----------------|
|                       |  |   |          |                               | Base Score   | Attack Vector    | Attack Complex |
|                       |  |   |          |                               |              |                  |                |
| <b>CVE-2019-17359</b> | Oracle Data Integrator                         | Runtime Java agent for ODI (Bouncy Castle Java Library) | HTTPS    | Yes                           | 7.5          | Network          | Low            |
| <b>CVE-2017-12626</b> | Oracle Enterprise Data Quality                 | General (Apache POI)                                    | HTTP     | Yes                           | 7.5          | Network          | Low            |
| <b>CVE-2020-11979</b> | Oracle Enterprise Repository                   | Security Subsystem (Apache Ant)                         | HTTP     | Yes                           | 7.5          | Network          | Low            |
| <b>CVE-2019-17566</b> | Oracle Enterprise Repository                   | Security Subsystem (Apache Batik)                       | HTTP     | Yes                           | 7.5          | Network          | Low            |
| <b>CVE-2020-11994</b> | Oracle Enterprise Repository                   | Security Subsystem (Apache Camel)                       | HTTP     | Yes                           | 7.5          | Network          | Low            |
| <b>CVE-2020-13935</b> | Oracle Managed File Transfer                   | MFT Runtime Server (Apache Tomcat)                      | HTTP     | Yes                           | 7.5          | Network          | Low            |
| <b>CVE-2019-0227</b>  | Oracle Real-Time Decision Server               | Platform Installation (Apache Axis)                     | HTTP     | Yes                           | 7.5          | Adjacent Network | High           |
| <b>CVE-2019-10086</b> | Oracle Data Integrator                         | Install, config, upgrade (Apache Commons BeanUtils)     | HTTP     | Yes                           | 7.3          | Network          | Low            |
| <b>CVE-2019-10086</b> | Oracle Endeca Information Discovery Integrator | Integrator ETL (Apache Commons BeanUtils)               | HTTP     | Yes                           | 7.3          | Network          | Low            |
| <b>CVE-2019-10086</b> | Oracle Fusion                                  | Install (Apache Commons)                                | HTTP     | Yes                           | 7.3          | Network          | Low            |

| CVE#                  | Product                                | Component  | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|-----------------------|--|--|----------|-------------------------------|--------------|---------------|----------------|
|                       |  |  |          |                               | Base Score   | Attack Vector | Attack Complex |
|                       | Middleware MapViewer                   | BeanUtils)                                       |          |                               |              |               |                |
| <b>CVE-2019-10086</b> | Oracle Real-Time Decision Server       | Platform Installation (Apache Commons BeanUtils) | HTTP     | Yes                           | 7.3          | Network       | Low            |
| <b>CVE-2019-10086</b> | Oracle WebCenter Portal                | Security Framework (Apache Commons BeanUtils)    | HTTP     | Yes                           | 7.3          | Network       | Low            |
| <b>CVE-2019-10086</b> | Oracle WebLogic Server                 | Console (Apache Commons Beanutils)               | HTTP     | Yes                           | 7.3          | Network       | Low            |
| <b>CVE-2021-2109</b>  | Oracle WebLogic Server                 | Console  | HTTP     | No                            | 7.2          | Network       | Low            |
| <b>CVE-2018-2587</b>  | Oracle Adaptive Access Manager         | Install and Config                               | HTTP     | Yes                           | 6.5          | Network       | High           |
| <b>CVE-2018-9019</b>  | Oracle Data Integrator                 | Rest Service (Dolibarr)                          | HTTP     | Yes                           | 6.5          | Network       | Low            |
| <b>CVE-2020-5421</b>  | Oracle GoldenGate Application Adapters | Application Adapters (Spring Framework)          | HTTP     | No                            | 6.5          | Network       | High           |
| <b>CVE-2020-5421</b>  | Oracle WebLogic Server                 | Sample apps (Spring Framework)                   | HTTP     | No                            | 6.5          | Network       | High           |
| <b>CVE-2021-1995</b>  | Oracle WebLogic Server                 | Web Services                                     | HTTP     | No                            | 6.5          | Network       | Low            |

| CVE#                  | Product   | Component                                   | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|-----------------------|---|---|----------|-------------------------------|--------------|---------------|----------------|
|                       |   |   |          |                               | Base Score   | Attack Vector | Attack Complex |
| <b>CVE-2019-14862</b> | Oracle Business Intelligence Enterprise Edition | Analytics Server (Knockout)                 | HTTP     | Yes                           | 6.1          | Network       | Low            |
| <b>CVE-2019-17091</b> | Oracle Enterprise Data Quality                  | General (Eclipse Mojarra)                   | HTTP     | Yes                           | 6.1          | Network       | Low            |
| <b>CVE-2020-11022</b> | Oracle WebCenter Sites                          | WebCenter Sites (jQuery)                    | HTTP     | Yes                           | 6.1          | Network       | Low            |
| <b>CVE-2020-11022</b> | Oracle WebLogic Server                          | Sample apps (jQuery)                        | HTTP     | Yes                           | 6.1          | Network       | Low            |
| <b>CVE-2016-5725</b>  | Oracle Data Integrator                          | Install, config, upgrade (JCraft JSch)      | SFTP     | Yes                           | 5.9          | Network       | High           |
| <b>CVE-2018-10237</b> | Oracle WebLogic Server                          | Centralized Thirdparty Jars (Google Guava)  | HTTP     | Yes                           | 5.9          | Network       | High           |
| <b>CVE-2021-2003</b>  | Business Intelligence Enterprise Edition        | Analytics Web Dashboards                    | HTTP     | No                            | 5.4          | Network       | Low            |
| <b>CVE-2019-10247</b> | Oracle Data Integrator                          | Centralized Thirdparty Jars (Eclipse Jetty) | HTTP     | Yes                           | 5.3          | Network       | Low            |
| <b>CVE-2021-2005</b>  | Oracle Business Intelligence Enterprise Edition | BI Platform Security                        | HTTP     | Yes                           | 4.7          | Network       | Low            |
| <b>CVE-2021-2033</b>  | Oracle WebLogic Server                          | Core Components                             | HTTP     | No                            | 4.3          | Network       | Low            |

| CVE#                 | Product                                | Component                               | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|----------------------|--|---|----------|-------------------------------|--------------|---------------|----------------|
|                      |  |   |          |                               | Base Score   | Attack Vector | Attack Complex |
| <b>CVE-2020-9488</b> | Oracle Data Integrator                 | Install, config, upgrade (Apache Log4j) | HTTP     | Yes                           | 3.7          | Network       | High           |
| <b>CVE-2020-9488</b> | Oracle GoldenGate Application Adapters | Application Adapters (Apache Log4j)     | HTTP     | Yes                           | 3.7          | Network       | High           |
| <b>CVE-2021-1996</b> | Oracle WebLogic Server                 | Web Services                            | HTTP     | No                            | 2.4          | Network       | Low            |

### Notes:

1. Outside In Technology is a suite of software development kits (SDKs). The protocol and CVSS score depend on the software that uses the Outside In Technology code. The CVSS score assumes that the software passes data received over a network directly to Outside In Technology code, but if data is not received over a network the CVSS score may be lower.

### Additional CVEs addressed are:

- The patch for CVE-2018-9019 also addresses CVE-2017-5611 and CVE-2018-7318.
- The patch for CVE-2019-0227 also addresses CVE-2018-8032.
- The patch for CVE-2019-10247 also addresses CVE-2019-10246.
- The patch for CVE-2020-11022 also addresses CVE-2020-11023.
- The patch for CVE-2020-13935 also addresses CVE-2020-13934.
- The patch for CVE-2021-2041 also addresses CVE-2019-2697.

Additional patches are included in this Critical Patch Update for the following non-exploitable CVEs in this Oracle product family:

- Oracle Global Lifecycle Management OPatch
  - Patch Installer (Apache Commons Compress): CVE-2019-12402 and CVE-2012-2098.

## Oracle GraalVM Risk Matrix

This Critical Patch Update contains 2 new security patches for Oracle GraalVM. Both of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                           | Component      | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RIS |               |                |             |
|-----------------------|-----------------------------------|----------------|----------|-------------------------------|----------------------|---------------|----------------|-------------|
|                       |                                   |                |          |                               | Base Score           | Attack Vector | Attack Complex | Privs Req'd |
| <b>CVE-2020-8277</b>  | Oracle GraalVM Enterprise Edition | Node (Node.js) | HTTP     | Yes                           | 7.5                  | Network       | Low            | None        |
| <b>CVE-2020-14803</b> | Oracle GraalVM Enterprise Edition | Java           | Multiple | Yes                           | 5.3                  | Network       | High           | None        |

#### Additional CVEs addressed are:

- The patch for CVE-2020-8277 also addresses CVE-2020-1971, CVE-2020-8265 and CVE-2020-8287.

## Oracle Health Sciences Applications Risk Matrix

This Critical Patch Update contains 5 new security patches for Oracle Health Sciences Applications. 3 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                                    | Component                     | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|-----------------------|--|-------------------------------|----------|-------------------------------|------------------|---------------|----------------|----------|
|                       |  |                               |          |                               | Base Score       | Attack Vector | Attack Complex | Priv Req |
| <b>CVE-2020-10683</b> | Oracle Health Sciences Information Manager | Recordlocator, DSUB (dom4j)   | HTTP     | Yes                           | 9.8              | Network       | Low            | Non      |
| <b>CVE-2020-5421</b>  | Oracle Healthcare Master                   | MDM Module (Spring Framework) | HTTP     | No                            | 6.5              | Network       | High           | Low      |

| CVE#                 | Product                                    | Component                          | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|----------------------|--|------------------------------------|----------|-------------------------------|------------------|---------------|----------------|----------|
|                      |  |                                    |          |                               | Base Score       | Attack Vector | Attack Complex | Priv Req |
|                      | Person Index                               |                                    |          |                               |                  |               |                |          |
| <b>CVE-2021-2040</b> | Oracle Argus Safety                        | Case Form, Local Affiliate Form    | HTTP     | Yes                           | 6.1              | Network       | Low            | Non      |
| <b>CVE-2021-2110</b> | Oracle Argus Safety                        | Letters                            | HTTP     | No                            | 5.0              | Network       | Low            | Low      |
| <b>CVE-2020-9488</b> | Oracle Health Sciences Information Manager | Recordlocator, DSUB (Apache Log4j) | HTTP     | Yes                           | 3.7              | Network       | High           | Non      |

## Oracle Hyperion Risk Matrix

This Critical Patch Update contains 7 new security patches for Oracle Hyperion. 5 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                            | Component   | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|-----------------------|------------------------------------|---|----------|-------------------------------|------------------|---------------|----------------|----------|
|                       |                                    |   |          |                               | Base Score       | Attack Vector | Attack Complex | Priv Req |
| <b>CVE-2019-13990</b> | Hyperion Infrastructure Technology | Common Security (Quartz)                            | HTTP     | Yes                           | 9.8              | Network       | Low            | No       |
| <b>CVE-2020-11984</b> | Hyperion Infrastructure Technology | Installation and Configuration (Apache HTTP Server) | HTTP     | Yes                           | 9.8              | Network       | Low            | No       |
| <b>CVE-2019-17563</b> | Hyperion Infrastructure Technology | Common Security (Apache Tomcat)                     | HTTP     | Yes                           | 7.5              | Network       | High           | No       |

| CVE#                  | Product                            | Component  | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |         |
|-----------------------|------------------------------------|--|----------|-------------------------------|------------------|---------------|----------------|---------|
|                       |                                    |  |          |                               | Base Score       | Attack Vector | Attack Complex | Pri Rec |
| <b>CVE-2019-12402</b> | Hyperion Infrastructure Technology | Installation and Configuration (Apache Commons Compress) | HTTP     | Yes                           | 7.5              | Network       | Low            | No      |
| <b>CVE-2020-5421</b>  | Hyperion Infrastructure Technology | Installation and Configuration (Spring Framework)        | HTTP     | No                            | 6.5              | Network       | High           | Lo      |
| <b>CVE-2020-11022</b> | Hyperion Financial Reporting       | Installation (jQuery)                                    | HTTP     | Yes                           | 6.1              | Network       | Low            | No      |
| <b>CVE-2019-12415</b> | Hyperion Infrastructure Technology | Common Security (Apache POI)                             | None     | No                            | 5.5              | Local         | Low            | Lo      |

### Notes:

1. This CVE is not exploitable in Hyperion Infrastructure Technology. The CVSS v3.1 Base Score for this CVE in the National Vulnerability Database (NVD) is 9.5. Tomcat is removed in Hyperion Infrastructure Technology with the January 2021 Critical Patch Update.
2. This CVE is not exploitable in Hyperion Financial Reporting. The CVSS v3.1 Base Score for this CVE in the National Vulnerability Database (NVD) is 6.1. jQuery is removed from Hyperion Financial Reporting with the January 2021 Critical Patch Update.

### Additional CVEs addressed are:

- The patch for CVE-2019-13990 also addresses CVE-2019-5427.
- The patch for CVE-2020-11022 also addresses CVE-2020-11023.
- The patch for CVE-2020-11984 also addresses CVE-2020-11993 and CVE-2020-9490.

## Oracle Insurance Applications Risk Matrix

This Critical Patch Update contains 3 new security patches for Oracle Insurance Applications. 1 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be

exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product  | Component                             | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RIS |               |                |    |
|-----------------------|--|---------------------------------------|----------|-------------------------------|----------------------|---------------|----------------|----|
|                       |  |                                       |          |                               | Base Score           | Attack Vector | Attack Complex | Pr |
| <b>CVE-2020-5421</b>  | Oracle Insurance Policy Administration             | Architecture (Spring Framework)       | HTTP     | No                            | 6.5                  | Network       | High           | Lc |
| <b>CVE-2020-5421</b>  | Oracle Insurance Rules Palette                     | Architecture (Spring Framework)       | HTTP     | No                            | 6.5                  | Network       | High           | Lc |
| <b>CVE-2019-11358</b> | Oracle Insurance Insbridge Rating and Underwriting | Framework Administrator IBFA (jQuery) | HTTP     | Yes                           | 6.1                  | Network       | Low            | Nc |

## Oracle Java SE Risk Matrix

This Critical Patch Update contains 1 new security patch for Oracle Java SE. This vulnerability is remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                   | Component | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RIS |               |                |             |
|-----------------------|---------------------------|-----------|----------|-------------------------------|----------------------|---------------|----------------|-------------|
|                       |                           |           |          |                               | Base Score           | Attack Vector | Attack Complex | Privs Req'd |
| <b>CVE-2020-14803</b> | Java SE, Java SE Embedded | Libraries | Multiple | Yes                           | 5.3                  | Network       | Low            | None        |

### Notes:

1. This vulnerability applies to Java deployments that load and run untrusted code (e.g., code that comes from the internet) and rely on the Java sandbox for security.

## Oracle JD Edwards Risk Matrix

This Critical Patch Update contains 5 new security patches for Oracle JD Edwards. All of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                               | Component                               | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|-----------------------|---------------------------------------|---|----------|-------------------------------|------------------|---------------|----------------|----------|
|                       |                                       |   |          |                               | Base Score       | Attack Vector | Attack Complex | Priority |
| <b>CVE-2020-1967</b>  | JD Edwards EnterpriseOne Tools        | Enterprise Infrastructure SEC (OpenSSL) | JDENET   | Yes                           | 7.5              | Network       | Low            | No       |
| <b>CVE-2020-11022</b> | JD Edwards EnterpriseOne Orchestrator | E1 IOT Orchestrator Security (jQuery)   | HTTP     | Yes                           | 6.1              | Network       | Low            | No       |
| <b>CVE-2020-11022</b> | JD Edwards EnterpriseOne Tools        | E1 Dev Platform Tech - Cloud (jQuery)   | HTTP     | Yes                           | 6.1              | Network       | Low            | No       |
| <b>CVE-2020-11022</b> | JD Edwards EnterpriseOne Tools        | Web Runtime (jQuery)                    | HTTP     | Yes                           | 6.1              | Network       | Low            | No       |
| <b>CVE-2021-2052</b>  | JD Edwards EnterpriseOne Orchestrator | E1 IOT Orchestrator Security            | HTTP     | Yes                           | 5.8              | Network       | Low            | No       |

### Additional CVEs addressed are:

- The patch for CVE-2020-11022 also addresses CVE-2020-11023.
- The patch for CVE-2020-1967 also addresses CVE-2019-1551.

## Oracle MySQL Risk Matrix

This Critical Patch Update contains 43 new security patches for Oracle MySQL. 5 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a

network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                  | Component                                  | Protocol        | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|-----------------------|--------------------------|--|-----------------|-------------------------------|------------------|---------------|----------------|----------|
|                       |                          |  |                 |                               | Base Score       | Attack Vector | Attack Complex | Priv Req |
| <b>CVE-2020-13871</b> | MySQL Workbench          | Workbench (SQLite)                         | MySQL Workbench | Yes                           | 7.5              | Network       | Low            | Nor      |
| <b>CVE-2019-10086</b> | MySQL Enterprise Monitor | Service Manager (Apache Commons BeanUtils) | HTTPS           | Yes                           | 7.3              | Network       | Low            | Nor      |
| <b>CVE-2021-2046</b>  | MySQL Server             | Server: Stored Procedure                   | MySQL Protocol  | No                            | 6.8              | Network       | Low            | Hig      |
| <b>CVE-2020-5421</b>  | MySQL Enterprise Monitor | Service Manager (Spring Framework)         | HTTPS           | No                            | 6.5              | Network       | High           | Lo       |
| <b>CVE-2020-5408</b>  | MySQL Enterprise Monitor | Service Manager (Spring Security)          | HTTPS           | No                            | 6.5              | Network       | Low            | Lo       |
| <b>CVE-2021-2020</b>  | MySQL Server             | Server: Optimizer                          | MySQL Protocol  | No                            | 6.5              | Network       | Low            | Lo       |
| <b>CVE-2021-2024</b>  | MySQL Server             | Server: Optimizer                          | MySQL Protocol  | No                            | 6.5              | Network       | Low            | Lo       |
| <b>CVE-2021-2011</b>  | MySQL Client             | C API                                      | MySQL Protocol  | Yes                           | 5.9              | Network       | High           | Nor      |
| <b>CVE-2020-1971</b>  | MySQL Workbench          | MySQL Workbench (OpenSSL)                  | MySQL Workbench | Yes                           | 5.9              | Network       | High           | Nor      |
| <b>CVE-2021-2006</b>  | MySQL Client             | C API                                      | MySQL Protocol  | No                            | 5.3              | Network       | High           | Lo       |
| <b>CVE-2021-2048</b>  | MySQL Server             | InnoDB                                     | MySQL Protocol  | No                            | 5.0              | Network       | High           | Hig      |
| <b>CVE-2021-2028</b>  | MySQL Server             | InnoDB                                     | MySQL Protocol  | No                            | 4.9              | Network       | Low            | Hig      |

| CVE#                 | Product      | Component               | Protocol       | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|----------------------|--------------|-------------------------|----------------|-------------------------------|------------------|---------------|----------------|----------|
|                      |              |                         |                |                               | Base Score       | Attack Vector | Attack Complex | Priv Req |
| <b>CVE-2021-2122</b> | MySQL Server | Server: DDL             | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2058</b> | MySQL Server | Server: Locking         | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2001</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2016</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2021</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2030</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2031</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2036</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2055</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2060</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2070</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2076</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2065</b> | MySQL Server | Server: Optimizer       | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2014</b> | MySQL Server | Server: PAM Auth Plugin | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2002</b> | MySQL Server | Server: Replication     | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |

| CVE#                 | Product      | Component                    | Protocol       | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|----------------------|--------------|------------------------------|----------------|-------------------------------|------------------|---------------|----------------|----------|
|                      |              |                              |                |                               | Base Score       | Attack Vector | Attack Complex | Priv Req |
| <b>CVE-2021-2012</b> | MySQL Server | Server: Security: Privileges | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2009</b> | MySQL Server | Server: Security: Roles      | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2072</b> | MySQL Server | Server: Stored Procedure     | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2081</b> | MySQL Server | Server: Stored Procedure     | MySQL Protocol | No                            | 4.9              | Network       | Low            | Hig      |
| <b>CVE-2021-2022</b> | MySQL Server | InnoDB                       | MySQL Protocol | No                            | 4.4              | Network       | High           | Hig      |
| <b>CVE-2021-2038</b> | MySQL Server | Server: Components Services  | MySQL Protocol | No                            | 4.4              | Network       | High           | Hig      |
| <b>CVE-2021-2061</b> | MySQL Server | Server: DDL                  | MySQL Protocol | No                            | 4.4              | Network       | High           | Hig      |
| <b>CVE-2021-2056</b> | MySQL Server | Server: DML                  | MySQL Protocol | No                            | 4.4              | Network       | High           | Hig      |
| <b>CVE-2021-2087</b> | MySQL Server | Server: DML                  | MySQL Protocol | No                            | 4.4              | Local         | Low            | Hig      |
| <b>CVE-2021-2088</b> | MySQL Server | Server: DML                  | MySQL Protocol | No                            | 4.4              | Local         | Low            | Hig      |
| <b>CVE-2021-2032</b> | MySQL Server | Information Schema           | MySQL Protocol | No                            | 4.3              | Network       | Low            | Lo       |
| <b>CVE-2021-2010</b> | MySQL Client | C API                        | MySQL Protocol | No                            | 4.2              | Network       | High           | Lo       |

| CVE#                 | Product      | Component                    | Protocol       | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|----------------------|--------------|------------------------------|----------------|-------------------------------|------------------|---------------|----------------|----------|
|                      |              |                              |                |                               | Base Score       | Attack Vector | Attack Complex | Priv Req |
| <b>CVE-2021-1998</b> | MySQL Server | Server: Optimizer            | MySQL Protocol | No                            | 3.8              | Network       | Low            | Hig      |
| <b>CVE-2021-2007</b> | MySQL Client | C API                        | MySQL Protocol | Yes                           | 3.7              | Network       | High           | Nor      |
| <b>CVE-2021-2019</b> | MySQL Server | Server: Security: Privileges | MySQL Protocol | No                            | 2.7              | Network       | Low            | Hig      |
| <b>CVE-2021-2042</b> | MySQL Server | InnoDB                       | MySQL Protocol | No                            | 2.3              | Local         | Low            | Hig      |

#### Additional CVEs addressed are:

- The patch for CVE-2020-13871 also addresses CVE-2020-11655, CVE-2020-11656, CVE-2020-15358 and CVE-2020-9327.
- The patch for CVE-2020-5408 also addresses CVE-2020-5407.

## Oracle PeopleSoft Risk Matrix

This Critical Patch Update contains 8 new security patches for Oracle PeopleSoft. 6 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                 | Product                           | Component      | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RI |               |                |             |
|----------------------|-----------------------------------|----------------|----------|-------------------------------|---------------------|---------------|----------------|-------------|
|                      |                                   |                |          |                               | Base Score          | Attack Vector | Attack Complex | Privs Req'd |
| <b>CVE-2021-2063</b> | PeopleSoft Enterprise PeopleTools | Portal         | None     | No                            | 8.4                 | Local         | Low            | None        |
| <b>CVE-2021-2071</b> | PeopleSoft Enterprise PeopleTools | Elastic Search | HTTP     | Yes                           | 8.1                 | Network       | High           | None        |

| CVE#                  | Product                                   | Component  | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RI |                  |                |             |
|-----------------------|---|--|----------|-------------------------------|---------------------|------------------|----------------|-------------|
|                       |   |  |          |                               | Base Score          | Attack Vector    | Attack Complex | Privs Req'd |
| <b>CVE-2019-0227</b>  | PeopleSoft Enterprise HCM Human Resources | Global Payroll for Switzerland (Apache Axis)               | HTTP     | Yes                           | 7.5                 | Adjacent Network | High           | None        |
| <b>CVE-2021-2044</b>  | PeopleSoft Enterprise FIN Payables        | Financial Sanctions  | HTTP     | No                            | 6.5                 | Network          | Low            | Low         |
| <b>CVE-2020-11022</b> | PeopleSoft Enterprise HCM Human Resources | Company Dir / Org Chart Viewer, Employee Snapshot (jQuery) | HTTP     | Yes                           | 6.1                 | Network          | Low            | None        |
| <b>CVE-2021-2043</b>  | PeopleSoft Enterprise PeopleTools         | Portal   | HTTP     | Yes                           | 6.1                 | Network          | Low            | None        |
| <b>CVE-2020-9281</b>  | PeopleSoft Enterprise PeopleTools         | Rich Text Editor (CKEditor)                                | HTTP     | Yes                           | 6.1                 | Network          | Low            | None        |
| <b>CVE-2020-1968</b>  | PeopleSoft Enterprise PeopleTools         | Security (OpenSSL)   | HTTPS    | Yes                           | 3.7                 | Network          | High           | None        |

#### Additional CVEs addressed are:

- The patch for CVE-2019-0227 also addresses CVE-2018-8032.
- The patch for CVE-2020-11022 also addresses CVE-2020-11023.

## Oracle Retail Applications Risk Matrix

This Critical Patch Update contains 32 new security patches for Oracle Retail Applications. 20 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product   | Component                                | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|-----------------------|---|--|----------|-------------------------------|--------------|---------------|----------------|
|                       |   |  |          |                               | Base Score   | Attack Vector | Attack Complex |
| <b>CVE-2020-10683</b> | Oracle Retail Customer Management and Segmentation Foundation | Segment (dom4j)                          | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-9546</b>  | Oracle Retail Merchandising System                            | Foundation (jackson-databind)            | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-9546</b>  | Oracle Retail Sales Audit                                     | Rule Wizards (jackson-databind)          | HTTP     | Yes                           | 9.8          | Network       | Low            |
| <b>CVE-2020-1945</b>  | Oracle Retail Extract Transform and Load                      | Mathematical Operators (Apache Ant)      | HTTP     | Yes                           | 9.1          | Network       | Low            |
| <b>CVE-2020-5421</b>  | Oracle Retail Order Broker                                    | System Administration (Spring Framework) | HTTP     | No                            | 8.8          | Network       | Low            |
| <b>CVE-2017-8028</b>  | Oracle Retail Invoice Matching                                | Posting (Spring-LDAP)                    | HTTP     | Yes                           | 8.1          | Network       | High           |
| <b>CVE-2020-5398</b>  | Oracle Retail Bulk Data Integration                           | BDI Job Scheduler (Spring Framework)     | HTTP     | Yes                           | 7.5          | Network       | High           |
| <b>CVE-2020-11979</b> | Oracle Retail Financial Integration                           | PeopleSoft Integration (Apache Ant)      | HTTP     | Yes                           | 7.5          | Network       | Low            |
| <b>CVE-2020-11979</b> | Oracle Retail Integration Bus                                 | RIB Kernal (Apache Ant)                  | HTTP     | Yes                           | 7.5          | Network       | Low            |
| <b>CVE-2019-17566</b> | Oracle Retail Integration Bus                                 | RIB Kernal (Apache Batik)                | HTTP     | Yes                           | 7.5          | Network       | Low            |
| <b>CVE-2019-17566</b> | Oracle Retail Order Broker                                    | System Administration (Apache Batik)     | HTTP     | Yes                           | 7.5          | Network       | Low            |

| CVE#                  | Product                                  | Component   | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|-----------------------|--|---|----------|-------------------------------|--------------|---------------|----------------|
|                       |  |   |          |                               | Base Score   | Attack Vector | Attack Complex |
| <b>CVE-2020-11979</b> | Oracle Retail Service Backbone           | RSB kernel (Apache Ant)                           | HTTP     | Yes                           | 7.5          | Network       | Low            |
| <b>CVE-2020-11979</b> | Oracle Retail Store Inventory Management | SIM Integration (Apache Ant)                      | HTTP     | Yes                           | 7.5          | Network       | Low            |
| <b>CVE-2019-10086</b> | Oracle Retail Financial Integration      | PeopleSoft Integration (Apache Commons BeanUtils) | HTTP     | Yes                           | 7.3          | Network       | Low            |
| <b>CVE-2019-10086</b> | Oracle Retail Integration Bus            | RIB Kernal (Apache Commons BeanUtils)             | HTTP     | Yes                           | 7.3          | Network       | Low            |
| <b>CVE-2019-10086</b> | Oracle Retail Order Broker               | System Administration (Apache Commons BeanUtils)  | HTTP     | Yes                           | 7.3          | Network       | Low            |
| <b>CVE-2019-10086</b> | Oracle Retail Service Backbone           | RSB kernel (Apache Commons BeanUtils)             | HTTP     | Yes                           | 7.3          | Network       | Low            |
| <b>CVE-2020-9484</b>  | Oracle Retail Order Broker               | System Administration (Apache Tomcat)             | None     | No                            | 7.0          | Local         | High           |
| <b>CVE-2020-5421</b>  | Oracle Retail Assortment Planning        | Application Core (Spring Framework)               | HTTP     | No                            | 6.5          | Network       | High           |
| <b>CVE-2020-5421</b>  | Oracle Retail Financial Integration      | PeopleSoft Integration (Spring Framework)         | HTTP     | No                            | 6.5          | Network       | High           |
| <b>CVE-2020-5421</b>  | Oracle Retail Integration Bus            | RIB Kernal (Spring Framework)                     | HTTP     | No                            | 6.5          | Network       | High           |

| CVE#                  | Product   | Component                                   | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|-----------------------|---|---|----------|-------------------------------|--------------|---------------|----------------|
|                       |   |   |          |                               | Base Score   | Attack Vector | Attack Complex |
| <b>CVE-2020-5421</b>  | Oracle Retail Invoice Matching                                | Security (Spring Framework)                 | HTTP     | No                            | 6.5          | Network       | High           |
| <b>CVE-2020-5421</b>  | Oracle Retail Service Backbone                                | RSB kernel (Spring Framework)               | HTTP     | No                            | 6.5          | Network       | High           |
| <b>CVE-2021-2057</b>  | Oracle Retail Customer Management and Segmentation Foundation | Internal Operations                         | HTTP     | No                            | 6.3          | Network       | Low            |
| <b>CVE-2019-17091</b> | Oracle Retail Bulk Data Integration                           | BDI Job Scheduler (Eclipse Mojarra)         | HTTP     | Yes                           | 6.1          | Network       | Low            |
| <b>CVE-2020-13954</b> | Oracle Retail Order Broker Cloud Service                      | Supplier Direct Fulfillment (Apache CXF)    | HTTP     | Yes                           | 6.1          | Network       | Low            |
| <b>CVE-2019-17091</b> | Oracle Retail Store Inventory Management                      | SIM Integration (Eclipse Mojarra)           | HTTP     | Yes                           | 6.1          | Network       | Low            |
| <b>CVE-2020-17521</b> | Oracle Retail Bulk Data Integration                           | BDI Job Scheduler (Apache Groovy)           | None     | No                            | 5.5          | Local         | Low            |
| <b>CVE-2020-17521</b> | Oracle Retail Financial Integration                           | PeopleSoft Integration Bugs (Apache Groovy) | None     | No                            | 5.5          | Local         | Low            |
| <b>CVE-2020-17521</b> | Oracle Retail Integration Bus                                 | RIB Kernal (Apache Groovy)                  | None     | No                            | 5.5          | Local         | Low            |
| <b>CVE-2020-17521</b> | Oracle Retail Service Backbone                                | RSB kernel (Apache Groovy)                  | None     | No                            | 5.5          | Local         | Low            |
| <b>CVE-2020-9488</b>  | Oracle Retail Customer Management                             | Promotions (Apache Log4j)                   | HTTP     | Yes                           | 3.7          | Network       | High           |

| CVE# | Product                     | Component | Protocol | Remote Exploit without Auth.? | CVSS VERSION |               |                |
|------|-----------------------------|-----------|----------|-------------------------------|--------------|---------------|----------------|
|      |                             |           |          |                               | Base Score   | Attack Vector | Attack Complex |
|      | and Segmentation Foundation |           |          |                               |              |               |                |

### Additional CVEs addressed are:

- The patch for CVE-2020-1945 also addresses CVE-2017-5645.
- The patch for CVE-2020-5398 also addresses CVE-2020-5421.
- The patch for CVE-2020-9546 also addresses CVE-2020-10650, CVE-2020-10672, CVE-2020-10673, CVE-2020-10968, CVE-2020-10969, CVE-2020-11111, CVE-2020-11112, CVE-2020-11113, CVE-2020-11619, CVE-2020-11620, CVE-2020-9547 and CVE-2020-9548.

## Oracle Siebel CRM Risk Matrix

This Critical Patch Update contains 4 new security patches for Oracle Siebel CRM. 1 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                              | Component               | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RIS |               |                |             |
|-----------------------|--------------------------------------|-------------------------|----------|-------------------------------|----------------------|---------------|----------------|-------------|
|                       |                                      |                         |          |                               | Base Score           | Attack Vector | Attack Complex | Privs Req'd |
| <b>CVE-2021-2039</b>  | Siebel Core - Server Framework       | Search                  | HTTP     | No                            | 7.6                  | Network       | Low            | Low         |
| <b>CVE-2020-9484</b>  | Siebel UI Framework                  | EAI (Apache Tomcat)     | None     | No                            | 7.0                  | Local         | High           | Low         |
| <b>CVE-2020-11022</b> | Siebel Mobile App                    | Open UI (jQuery)        | HTTP     | Yes                           | 6.1                  | Network       | Low            | None        |
| <b>CVE-2021-2004</b>  | Siebel Core - Server BizLogic Script | Integration - Scripting | HTTP     | No                            | 4.3                  | Network       | Low            | Low         |

### Additional CVEs addressed are:

- The patch for CVE-2020-11022 also addresses CVE-2020-11023.
- The patch for CVE-2020-9484 also addresses CVE-2020-11996, CVE-2020-13934, CVE-2020-13935, CVE-2020-1935 and CVE-2020-9488.

## Oracle Supply Chain Risk Matrix

This Critical Patch Update contains 11 new security patches for Oracle Supply Chain. All of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product  | Component                   | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |         |
|-----------------------|--|-----------------------------|----------|-------------------------------|------------------|---------------|----------------|---------|
|                       |  |                             |          |                               | Base Score       | Attack Vector | Attack Complex | Pri Rec |
| <b>CVE-2021-2102</b>  | Oracle Complex Maintenance, Repair, and Overhaul | Dialog Box                  | HTTP     | Yes                           | 8.2              | Network       | Low            | Noi     |
| <b>CVE-2021-2103</b>  | Oracle Complex Maintenance, Repair, and Overhaul | Dialog Box                  | HTTP     | Yes                           | 8.2              | Network       | Low            | Noi     |
| <b>CVE-2021-2104</b>  | Oracle Complex Maintenance, Repair, and Overhaul | Dialog Box                  | HTTP     | Yes                           | 8.2              | Network       | Low            | Noi     |
| <b>CVE-2021-2078</b>  | Oracle Configurator                              | UI Servlet                  | HTTP     | Yes                           | 8.2              | Network       | Low            | Noi     |
| <b>CVE-2021-2079</b>  | Oracle Configurator                              | UI Servlet                  | HTTP     | Yes                           | 8.2              | Network       | Low            | Noi     |
| <b>CVE-2021-2080</b>  | Oracle Configurator                              | UI Servlet                  | HTTP     | Yes                           | 8.2              | Network       | Low            | Noi     |
| <b>CVE-2020-14195</b> | Oracle Agile PLM                                 | Security (jackson-databind) | HTTP     | Yes                           | 8.1              | Network       | High           | Noi     |
| <b>CVE-2019-17563</b> | Oracle Agile Engineering                         | Install (Apache             | HTTP     | Yes                           | 7.5              | Network       | High           | Noi     |

| CVE#                  | Product   | Component             | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 |               |                |          |
|-----------------------|---|-----------------------|----------|-------------------------------|------------------|---------------|----------------|----------|
|                       |   |                       |          |                               | Base Score       | Attack Vector | Attack Complex | Priv Rec |
|                       | Data Management                                       | Tomcat)               |          |                               |                  |               |                |          |
| <b>CVE-2020-9281</b>  | Oracle Agile PLM                                      | Security (CKEditor)   | HTTP     | Yes                           | 6.1              | Network       | Low            | None     |
| <b>CVE-2019-11358</b> | Oracle Agile Product Lifecycle Management for Process | Installation (jQuery) | HTTP     | Yes                           | 6.1              | Network       | Low            | None     |
| <b>CVE-2019-11358</b> | Oracle Transportation Management                      | Install (jQuery)      | HTTP     | Yes                           | 6.1              | Network       | Low            | None     |

### Additional CVEs addressed are:

- The patch for CVE-2019-11358 also addresses CVE-2020-11022 and CVE-2020-11023.
- The patch for CVE-2019-17563 also addresses CVE-2019-17569, CVE-2020-1935, CVE-2020-1938 and CVE-2020-9484.
- The patch for CVE-2020-14195 also addresses CVE-2020-10650, CVE-2020-10672, CVE-2020-10673, CVE-2020-10968, CVE-2020-10969, CVE-2020-11111, CVE-2020-11112, CVE-2020-11113, CVE-2020-14060, CVE-2020-14061, CVE-2020-14062, CVE-2020-24616, CVE-2020-24750, CVE-2020-9546, CVE-2020-9547 and CVE-2020-9548.

## Oracle Systems Risk Matrix

This Critical Patch Update contains 4 new security patches for Oracle Systems. 3 of these vulnerabilities may be remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                  | Product                          | Component              | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RIS |               |                |             |
|-----------------------|----------------------------------|------------------------|----------|-------------------------------|----------------------|---------------|----------------|-------------|
|                       |                                  |                        |          |                               | Base Score           | Attack Vector | Attack Complex | Privs Req'd |
| <b>CVE-2020-11984</b> | Oracle ZFS Storage Appliance Kit | Operating System Image | Multiple | Yes                           | 9.8                  | Network       | Low            | None        |

| CVE#                  | Product                           | Component               | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RIS |               |                |             |
|-----------------------|-----------------------------------|-------------------------|----------|-------------------------------|----------------------|---------------|----------------|-------------|
|                       |                                   |                         |          |                               | Base Score           | Attack Vector | Attack Complex | Privs Req'd |
| <b>CVE-2020-11022</b> | StorageTek Tape Analytics SW Tool | Software (jQuery)       | HTTP     | Yes                           | 6.1                  | Network       | Low            | None        |
| <b>CVE-2021-1999</b>  | Oracle ZFS Storage Appliance Kit  | RAS subsystems          | None     | No                            | 5.0                  | Local         | High           | High        |
| <b>CVE-2020-9488</b>  | StorageTek Tape Analytics SW Tool | Software (Apache Log4j) | HTTP     | Yes                           | 3.7                  | Network       | High           | None        |

#### Additional CVEs addressed are:

- The patch for CVE-2020-11022 also addresses CVE-2020-11023.
- The patch for CVE-2020-11984 also addresses CVE-2018-20781, CVE-2019-11135, CVE-2019-20892, CVE-2019-20907, CVE-2020-11985, CVE-2020-11993, CVE-2020-13254, CVE-2020-13596, CVE-2020-13871, CVE-2020-14422, CVE-2020-15025, CVE-2020-15358, CVE-2020-17498, CVE-2020-24583, CVE-2020-24584, CVE-2020-25862, CVE-2020-25863, CVE-2020-25866, CVE-2020-26575, CVE-2020-9490 and CVE-2021-1999.

## Oracle Utilities Applications Risk Matrix

This Critical Patch Update contains 1 new security patch for Oracle Utilities Applications. This vulnerability is remotely exploitable without authentication, i.e., may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                 | Product                    | Component                  | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RISK |               |                |             |        |
|----------------------|----------------------------|----------------------------|----------|-------------------------------|-----------------------|---------------|----------------|-------------|--------|
|                      |                            |                            |          |                               | Base Score            | Attack Vector | Attack Complex | Privs Req'd | Impact |
| <b>CVE-2020-2555</b> | Oracle Utilities Framework | General (Oracle Coherence) | HTTP     | Yes                           | 9.8                   | Network       | Low            | None        | N      |

## Oracle Virtualization Risk Matrix

This Critical Patch Update contains 17 new security patches for Oracle Virtualization. None of these vulnerabilities may be remotely exploitable without authentication, i.e., none may be exploited over a network without requiring user credentials. The English text form of this Risk Matrix can be found [here](#).

| CVE#                 | Product              | Component | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RISK ( |               |                |             |       |
|----------------------|----------------------|-----------|----------|-------------------------------|-------------------------|---------------|----------------|-------------|-------|
|                      |                      |           |          |                               | Base Score              | Attack Vector | Attack Complex | Privs Req'd | U Int |
| <b>CVE-2021-2074</b> | Oracle VM VirtualBox | Core      | None     | No                            | 8.2                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2129</b> | Oracle VM VirtualBox | Core      | None     | No                            | 7.9                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2128</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.5                     | Local         | Low            | Low         | N     |
| <b>CVE-2021-2086</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2111</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2112</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2121</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2124</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2119</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |

| CVE#                 | Product              | Component | Protocol | Remote Exploit without Auth.? | CVSS VERSION 3.1 RISK ( |               |                |             |       |
|----------------------|----------------------|-----------|----------|-------------------------------|-------------------------|---------------|----------------|-------------|-------|
|                      |                      |           |          |                               | Base Score              | Attack Vector | Attack Complex | Privs Req'd | U Int |
| <b>CVE-2021-2120</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2126</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2131</b> | Oracle VM VirtualBox | Core      | None     | No                            | 6.0                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2125</b> | Oracle VM VirtualBox | Core      | None     | No                            | 4.6                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2073</b> | Oracle VM VirtualBox | Core      | None     | No                            | 4.4                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2127</b> | Oracle VM VirtualBox | Core      | None     | No                            | 4.4                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2130</b> | Oracle VM VirtualBox | Core      | None     | No                            | 4.4                     | Local         | Low            | High        | N     |
| <b>CVE-2021-2123</b> | Oracle VM VirtualBox | Core      | None     | No                            | 3.2                     | Local         | Low            | High        | N     |

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