



Call Management System (CMS)
R21.0
Release Notes
Issue 1.5
June 12, 2025

Table of Contents

1. PURPOSE	4
2. DOCUMENT CHANGE HISTORY	5
3. CMS R21.0 TIMING	5
4. CMS 21.0.2.0 INFORMATION	5
4.1. NEW FEATURES IN 21.0.2.0	5
4.2. 21.0.2.0 BUG FIXES	6
<i>Web Client fixes</i>	6
<i>PC Client fixes</i>	6
<i>Server fixes</i>	6
4.3. KNOWN ISSUES WITH 21.0.2.0	6
5. CMS 21.0.1.0 INFORMATION	7
5.1. NEW FEATURES IN 21.0.1.0	7
5.2. 21.0.1.0 BUG FIXES	7
<i>Web Client fixes</i>	7
<i>Server fixes</i>	7
5.3. KNOWN ISSUES WITH 21.0.1.0	8
6. CMS 21.0.0.1 INFORMATION	8
6.1. 21.0.0.1 NEW ELEMENTS	8
6.2. 21.0.0.1 BUG FIXES	8
<i>Web Client fixes</i>	8
<i>PC Client fixes</i>	8
6.3. KNOWN ISSUES WITH 21.0.0.1	9
7. CMS R21.0 FUNCTIONALITY	9
7.1. CMS 21.0.0.0 CMS PLATFORM SUPPORT	9
7.2. NEW CMS FEATURES IN 21.0.0.0	9
7.3. SIMPLIFICATION/FEATURES NO LONGER AVAILABLE IN 21.0.0.0	10
7.4. BUGS FIXED IN 21.0.0.0	10
<i>CMS Server fixes</i>	10
<i>PC Client fixes</i>	10
<i>Web Client fixes</i>	10
7.5. KNOWN ISSUES WITH 21.0.....	11
<i>Known Issues with 21.0.0.0</i>	11
<i>Known Issues with 21.0.0.1</i>	11
7.6. 21.0.0.0 PATCH 1	11
<i>Web Client fixes</i>	11
8. DEPLOYMENT NOTES.....	12
8.1. ON-PREM	12
8.2. CUSTOMER PROVIDED CLOUD	12
8.3. AXP PRIVATE CLOUD	12

9. CMS CONNECTORS	12
10. SOFTWARE DOWNLOAD INFORMATION	14
APPENDIX A: LINUX RPMS INCLUDED IN CMS R21.0.2.0.....	14

1. Purpose

The release notes provide summary information about the GA version of the Call Management System (CMS) R21.0.X software release.

The release notes include important information about known issues, any last-minute information not incorporated into the standard documentation, and a high-level description of the release content.

For details about the features included in CMS R21.0.X, please see the product documentation posted at <http://support.avaya.com>.

The following table provides acquisition information for the CMS R 21.0.X software:

Product	Software Acquisition	Required Patch or PSN
Call Management System R21.0	CUE upgrade to R21 from pre R21. No base load upgrades are allowed from pre-R21 releases. CMS Release 21.0 supports up-grades from CMS Releases 16.x, 17.x, 18.x, 19.x and 20.x. The CMS R21.0.2.0 OVA file can be acquired from PLDS. CMS deployments on the Avaya Solutions Platform (ASP) servers should use the CMS-R21.*-kvm-*.ova. Software only deployments are supported for AXP Private Cloud.	None
	CMS Supervisor Web – Included with CMS Software acquired as noted above.	None
	CMS Supervisor PC Client– The following CMS Supervisor PC Client, Terminal Emulator and Network Reporting releases are available: CMS Supervisor PC Client QA.31 CMS Terminal Emulator QA.31 CMS Network Reporting QA.31	None
	CMS Linux RPM Updates: The version of CMS 21.0.2.0 available on June 12, 2025, has all current Linux RPMs available at the time of creating the 21.0.2.0 OVA files. Software only release will not have Linux included.	None

2. Document Change History

Issue Number	Date	Comment
1.0	3 June 2024	Initial Version for CMS 21.0.x GA
1.1	24 June 2024	Required Web Client Patch available. See PSN006302u for details.
1.2	30 July 2024	Announcement of 21.0.0.1 Bug fixes are documented in the appropriate sections of this document.
1.3	22 August 2024	Announcement of release of QA.17 clients.
1.4	26 November 2024	Announcement of 21.0.1.0 New features and bug fixes are documented in the appropriate sections of this document.
1.5	12 June 2025	Announcement of 21.0.2.0 New features and bug fixes are documented in the appropriate sections of this document

3. CMS R21.0 Timing

The timing of the R21.0.0.0 release is driven by the end of support for Informix 12.10. R21.0.0.0 releases the supported Informix 14.10.

4. CMS 21.0.2.0 Information

4.1. *New Features in 21.0.2.0*

CMS 21.0.2.0 introduces the following new elements:

- Red Hat VM migration
- Avaya IAM support
- Web Client support for Alternate Enterprise ID (including numeric IDs)
- Web Client Admin Scheduler
 - Backup
- Turn data collection on/off for all ACDs now from web
- Tomcat update to 9.0.104
- RHEL RPM updates
- PC Supervisor QA.31
- CMS Connector Updates
 - High Availability CMS Admin-Sync enhancements
 - Dynamic one-way data and admin sync from CMS database with lower baseload version than CMS to be synced. This supports new enhanced Zero Downtime Upgrade capabilities of CMS. Previous versions of Admin-Sync required that the table schemas match exactly. However, CMS frequently introduces new fields to tables during an upgrade.
 - Auto-sync of new R21.0.2.0 users table field for Enterprise ID.

- Auto Sync users LDAP information.
- Unload
 - Add support for split profile, vdn profile, and agent trace.
- WebLM
 - Enhanced reliability for Realtime CMS Connectors.

4.2. 21.0.2.0 Bug Fixes

Web Client fixes

Jira	Customer Reference	Summary
CMS-9092	SR# 1-22584821802 PEA 1-ADRTQ9R	Table ag_actv fields ext_call_orig and keydb_dialed using the wrong data type on reports (server side fix)
CMS-9153	SR# 1-22690004832 PEA 1-AFTJB64	Issues when user does not have permission to acd 1
CMS-9725	SR# 1-22967010173 PEA 1-AJTVK50	R21 web designer report migration results in mismatches causing wrong report files being opened
CMS-9734	SR# 1-22949235811 PEA 1-AJSXC73	CMS server running slowly may cause web client login to fail in a manner that persists until CMS server restart

PC Client fixes

Jira	Customer Reference	Summary
CMS-9092	SR# 1-22584821802 PEA 1-ADRTQ9R	Table ag_actv fields ext_call_orig and keydb_dialed using the wrong data type on reports (server side fix)

Server fixes

Jira	Customer Reference	Summary
CMS-9226	SR# 1-22862011564 PEA 1-AI4IZFE	CM/CMS link goes down sporadically when transfer/conference calls are handled by unmeasured agents
CMS-9736	SR# 1-22970154362 PEA 1-AJW445U	KVM dbinit.sh add_disks operation corrupted informix database after reboot
CMS-9738	SR# 1-22942139322 PEA 1-AJX0HKQ	CM 10.2.1+/CMS link goes down sometimes after agent administration activities

4.3. Known Issues with 21.0.2.0

- When logging into web client, if an error is returned by the server the screen may sit displaying a spinning circle instead of displaying an error message. Reload the page and try to login again.

5. CMS 21.0.1.0 Information

5.1. *New Features in 21.0.1.0*

CMS 21.0.1.0 introduces the following new elements:

- ASP 130 Support R6.0
 - Red Hat KVM support for new installs
- Web Client Admin Scheduler
 - Multi Agent Skill Change
 - Change Agent Skill
- GRIP 2255 - Report on ROIF & ROOF
- Log all Informix database inserts, updates, deletes
- ECH replace Zero UCID with UCID of other segments in call
- Increase capacity to 2,999 supervisors in single CMS
- Increase CMS field lengths
- Improve the algorithm CMS uses to generate CALLIDs
- Default historical report timeout to 10 minutes - guard railing
- Turn all data collection on/off on multiple ACDs via ascii/PC client
- JITC Compliance
- PC Supervisor QA.20
- CMS Connector Updates
 - ECH Handler to support new CALLID format
 - Admin-Sync HA to better support ZDT & automation
- Tomcat update to 9.0.96.0
- RHEL rpm updates

5.2. *21.0.1.0 Bug Fixes*

Web Client fixes

Jira	Customer Reference	Summary
CMS-9014	PEA 1-ACBPKU3 / SR# 1-22464861362	R21 is not updating the report status at bottom of report screen
CMS-8868	PEA# 1-A98KY0J / SR# 1-22180044602	Tenant user can't change Exceptions on web client even though they have permissions to do so
CMS-5972	PEA 1-87MCIEZ / SR# 1-17452703312	CMS Web report printing not resizing to force output to one page wide (with no scrollbar)
CMS-7041		Does not auto scale report data before printing
CMS-8256		Report Editor: row layout container size should be configurable.

Server fixes

Jira	Customer Reference	Summary
CMS-9050	INC6168663	Incorrect conference flag in CMS report

CMS-8923	SR #1-22418893852	dbinit.sh add_disks adding incorrect amount of space to dbspace
CMS-8489	PEA# 1-9EE4UFU / SR# 1-20262227062	CMSADM Restore Failing
CMS-9012	PEA# 1-A9EXNYY / SR# 1-22333627002 PEA# 1-9EE4UFU / SR# 1-20262227062	Some customers can have issues creating file system backups on CMS servers. Makes file list filtering more robust against unexpected inputs.

5.3. *Known Issues with 21.0.1.0*

No known issues.

6. CMS 21.0.0.1 Information

6.1. *21.0.0.1 New Elements*

CMS 21.0.0.1 introduces the following new elements:

- PC Supervisor QA.10
- Tomcat update to 9.0.91
- RHEL 8.10
- RHEL rpm updates

6.2. *21.0.0.1 Bug Fixes*

Web Client fixes

Jira	Customer Reference	Summary
CMS-8766		After running an historical report and then returning to input screen original input year has changed to 2020.
CMS-8283		Search functionality doesn't work for help page.
CMS-8754		Scheduled report jobs are not shown when job data/actions are purged
CMS-8705		Web Report: Error displaying Dates in Inputs form after opening historical report

PC Client fixes

Jira	Customer Reference	Summary
CMS-8283		Search functionality doesn't work for help page.

CMS-8490	SR# 1-22011268652	CMS PC Supervisor Help Documentation : Search Button Returning "No topics found." for all searches
CMS-8483	PEA 1-A3HTUKU / SR# 1-21753222952	PC Supervisor : Select a Report - Properties save/overwrite gives error.
CMS-8767		Make sure Secondary CMS allows running Design Reports and Block Editing (Upload and Delete)

6.3. Known Issues with 21.0.0.1

No known issues.

7. CMS R21.0 Functionality

The CMS R21.0.0.0 release provides the following platform and feature support:

7.1. CMS 21.0.0.0 CMS Platform Support

CMS R21.0.0.0 supports the following platforms:

- Solutions Platform 130, this includes new sales and upgrades to existing Avaya Solutions Platform deployments.
- Virtualized deployment on VMware, this includes new sales and upgrades to existing VMware deployments.
- Virtualized deployments in Amazon Web Services (AWS), this includes new sales and upgrades to existing AWS deployments.
- Virtualized deployments in Google Cloud Platform (GCP), this includes new sales and upgrades to existing VMware deployments.
- Software only deployments as part of the AXP Private Cloud offering.
- Physical servers are no longer supported. (Dell R630, Dell R730, HPE 380 G9)

All software upgrades to CMS 21.0.0.0 must perform a CUE upgrade.

7.2. New CMS Features in 21.0.0.0

This release contains several new features and security related enhancements.

- Web Client Report Scheduler
- Informix 14.10
- AXP Private Cloud support
 - Software only installs
 - Avaya Aura Distributed Architecture (AADA) support
 - CMS APIs
- Zero Down Time support
 - Real Time Admin Sync
 - Ability to patch without restart
- Tomcat update

- RHEL 8.9
- LDAP non case-sensitive usernames
- CMS dictionary names match number of characters in CM
- Option to encrypt system backups
- swversion tool reports on cloud platform
- Simplification – see below

7.3. *Simplification/Features no longer available in 21.0.0.0*

Simplification/Features that are no longer supported with CMS R21

- Netbackup & Tivoli backup methods
- Informix Client software bundles (SDK or JDBC libs) not included in OVA (available to download from HCL site)
- Physical servers
- CUE upgrades from Solaris to R21 not supported
- Disks not encrypted by default as supported platforms do it by default or with minimal configuration
- Single OVA for VM and Cloud deployments
- New non-EAS ACDs cannot be added on CMS R21. Migration of non-EAS ACDs to CMS R21 from previous releases will not be supported.

7.4. *Bugs Fixed in 21.0.0.0*

CMS Server fixes

Jira	Customer Reference	Summary
CMS-7045		Update swversion tool to report on Cloud platform CMS deployed on
CMS-8193		LDAP Configuration rejected when pinging LDAP Server Fails : get_ldap_server() function in /cms/install/bin/ldap_funcs

PC Client fixes

Jira	Customer Reference	Summary
CMS-8440	PEA 1-9XU603S / SR# 1-21609506572	Report Designer: Operand 2 dropdown menu not available.

Web Client fixes

Jira	Customer Reference	Summary
CMS-8648	PEA 1-8P8JPE6 / SR# 1-18862973182	Web client not migrating precision of zero in tables

CMS-8466	PEA 1-A3RQ8LJ / SR# 1-21975001542	CMS Web : Report Export : Numeric values in Disposition column
CMS-8293		Web Client: when you click the "Do not show again" check box in the info banner it still gets displayed when the page next loads
CMS-8196	PEA 1-99XGHR1 / SR# 1-20165189832	Web client thresholds don't work when dictionary name for workmode etc changed
CMS-8112	SNOW INC4966527	The data in the export file has an additional Text Delimiter ""
CMS-6344	PEA 1-8P8JPE6 / SR# 1-18862973182	Migrated report with several charts and tables not displaying correctly
CMS-6092	PEA 1-8D5K81Y / SR# 1-18116713674	Charts missing after report migration
CMS-5886	PEA 1-81K5DQZ / SR# 1-17501631521	Migrated report doesn't honor font settings in table
CMS-8501	1-21808417082 1-22006723362 1-22019715662	Web Cert Expiry Alarm Raised Incorrectly - check_webcrt defect

7.5. *Known Issues with 21.0*

Known Issues with 21.0.0.0

- Search functionality for help page in Web Client and PC Client does not work. A patch will be provided post GA.
- After running an historical report and then returning to input screen original input year has changed to 2020.

Known Issues with 21.0.0.1

- Scheduled integrated reports are showing no data for the integrated data in the report (historical and realtime data displays correctly) and start of day will always be 00:00. When run normally (without the scheduler) the reports display correctly.
- Scheduled historical reports always run for "default" timezone regardless of the report input selection.

7.6. *21.0.0.0 Patch 1*

See PSN006302u for details.

Web Client fixes

Jira	Customer Reference	Summary
CMS-8754		Scheduled report jobs are not shown when job data/actions are purged

CMS-8705		Web Report: Error displaying Dates in Inputs form after opening historical report
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8. Deployment Notes

8.1. *On-Prem*

This section contains information related to CMS R21.0 deployment in virtual environments on-prem.

- CMS R21.0 supports deployment in VMware ESXi 7.0 and 8.0 on customer provided hardware
- Two OVA files are provided:
 - One for use with VMware (CMS-R21.*.ova)
 - One for use with Red Hat KVM deployments on ASP 130 (CMS-R21.*-kvm-*.ova)

8.2. *Customer Provided Cloud*

This section contains information related to CMS R21.0 deployment in virtual environments on customer provided cloud.

- Virtualized deployments supported in:
 - Amazon Web Services
 - Google Cloud Platform
- A cloud OVA file is available for Cloud deployments without console access (CMS-R21.*-cloud-*.ova).

8.3. *AXP Private Cloud*

This section contains information related to CMS R21.0 deployment on AXP Private Cloud.

- RHEL 8.10 is a pre-requisite to deployment of CMS in AXP Private Cloud.

9. CMS Connectors

CMS Connectors are add-on interfaces that provide extra functionality on top of the standard CMS platform.

When installing any CMS patch and any CMS Connector applications, please refer to the release notes for the various connectors and use the version specified.

There is a CMS Investigation Tool available on PLDS (Download ID: ACMS0000000000) that can assist the customer with identifying which connectors are installed on the current CMS release.

Version 8.0.x of each connector is supported on CMS R21.

The following is a listing of available connectors:

	Name	Description
REAL-TIME	rt_bp	Blue Pumpkin / Verint Real-Time Adherence
	rt_cala	Calabrio Real-Time Adherence
	rt_gen	Generic Real-Time Adherence
	rt_geo	Geotel Real-Time Adherence ^[1]
	rt_iex	IEX / Nice Real-time Adherence
	rt_pip	Pipkins Real-Time Adherence
	rt_tcs	TCS / Aspect Real-Time Adherence
	rt_wfo	Avaya WFO Real-Time Adherence
	rt_socket	Real-Time Socket
	rt_dsi	Avaya Desktop Wallboard Real-Time

HISTORICAL	iex6	IEX / Nice Historical
	tcs6	TCS / Aspect Historical
	bp6	Blue Pumpkin / Verint Historical
	pip6	Pipkins Historical
	cala6	Calabrio Historical
	wfo	Avaya WFO Historical
	payroll	Payroll
	unload	Unload
	hist_dsi	Avaya Desktop Wallboard Historical
	inova	Inova Historical
	agentskills	AgentSkills Historical
	aux_merge	Merge AUX Logging and Login/Logout Punches

OTHER	ech	ECH Handler
	aux_logger	AUX Logging
	HAcms	Admin Sync
	weblm	Web License Manager
	ech_filter	External Call History Filter
	combo	Combined Real-time and Historical

10. Software Download Information

For installation and upgrade implementation options, please consult your Account team or Sales team.

Please be sure to use the latest CMS documents for instructions on installing an upgrading to CMS R21.0. Always go to <http://support.avaya.com>, to obtain a current copy of the documents for each product release.

In CMS R21, Informix Client software bundles (SDK or JDBC libs) will not be included in the CMS OVA/ISO. Previous versions of CMS server bundled the client installers on the CMS ISO and included them under /storage/cms_dvd on the CMS server for customers to access as a convenience. Instructions on Informix Client software bundles download available in the Deploying Guide.

Appendix A: Linux RPMs included in CMS R21.0.2.0

abattis-cantarell-fonts-0.0.25-6.el8.noarch	acl-2.2.53-3.el8.x86_64	adcli-0.9.2-1.el8.x86_64	adobe-mappings-cmap-20171205-3.el8.noarch
adobe-mappings-cmap-deprecated-20171205-3.el8.noarch	adobe-mappings-pdf-20180407-1.el8.noarch	adwaita-cursor-theme-3.28.0-3.el8.noarch	adwaita-icon-theme-3.28.0-3.el8.noarch
aide-0.16-14.el8_5.1.x86_64	alsa-lib-1.2.10-2.el8.x86_64	apr-1.6.3-12.el8.x86_64	at-3.1.20-12.el8.x86_64
atk-2.28.1-1.el8.x86_64	at-spi2-atk-2.26.2-1.el8.x86_64	at-spi2-core-2.28.0-1.el8.x86_64	audispd-plugins-3.1.2-1.el8.x86_64
audit-3.1.2-1.el8.x86_64	audit-libs-3.1.2-1.el8.x86_64	authselect-1.2.6-2.el8.x86_64	authselect-compat-1.2.6-2.el8.x86_64
authselect-libs-1.2.6-2.el8.x86_64	avahi-glib-0.7-27.el8_10.1.x86_64	avahi-libs-0.7-27.el8_10.1.x86_64	basesystem-11-5.el8.noarch
bash-4.4.20-5.el8.x86_64	bc-1.07.1-5.el8.x86_64	bind-libs-9.11.36-16.el8_10.4.x86_64	bind-libs-lite-9.11.36-16.el8_10.4.x86_64
bind-license-9.11.36-16.el8_10.4.noarch	bind-utils-9.11.36-16.el8_10.4.x86_64	binutils-2.30-125.el8_10.x86_64	biosdevname-0.7.3-2.el8.x86_64
brotli-1.0.6-3.el8.x86_64	bzip2-1.0.6-28.el8_10.x86_64	bzip2-libs-1.0.6-28.el8_10.x86_64	ca-certificates-2024.2.69_v8.0.303-80.0.el8_10.noarch
cairo-1.15.12-6.el8.x86_64	cairo-gobject-1.15.12-6.el8.x86_64	c-ares-1.13.0-11.el8_10.x86_64	checkpolicy-2.9-1.el8.x86_64
chkconfig-1.19.2-1.el8.x86_64	chrony-4.5-2.el8_10.x86_64	cmake-filesystem-3.26.5-2.el8.x86_64	cms-R21.0.2.0-Lca.k.x86_64
cmsweb-R21.0.2.0-ca.k.x86_64	colord-libs-1.4.2-1.el8.x86_64	copy-jdk-configs-4.0-2.el8.noarch	coreutils-8.30-15.el8.x86_64

coreutils-common-8.30-15.el8.x86_64	cpio-2.12-11.el8.x86_64	cpp-8.5.0-26.el8_10.x86_64	cracklib-2.9.6-15.el8.x86_64
cracklib-dicts-2.9.6-15.el8.x86_64	cronie-1.5.2-10.el8.x86_64	cronie-anacron-1.5.2-10.el8.x86_64	crontabs-1.11-17.20190603git.el8.noarch
crypto-policies-20230731-1.git3177e06.el8.noarch	crypto-policies-scripts-20230731-1.git3177e06.el8.noarch	cryptsetup-libs-2.3.7-7.el8.x86_64	cups-2.2.6-62.el8_10.x86_64
cups-client-2.2.6-62.el8_10.x86_64	cups-filesystem-2.2.6-62.el8_10.noarch	cups-filters-1.20.0-35.el8_10.x86_64	cups-filters-libs-1.20.0-35.el8_10.x86_64
cups-ipptool-2.2.6-62.el8_10.x86_64	cups-libs-2.2.6-62.el8_10.x86_64	curl-7.61.1-34.el8_10.3.x86_64	cyrus-sasl-2.1.27-6.el8_5.x86_64
cyrus-sasl-gssapi-2.1.27-6.el8_5.x86_64	cyrus-sasl-lib-2.1.27-6.el8_5.x86_64	dbus-1.12.8-26.el8.x86_64	dbus-common-1.12.8-26.el8.noarch
dbus-daemon-1.12.8-26.el8.x86_64	dbus-glib-0.110-2.el8.x86_64	dbus-libs-1.12.8-26.el8.x86_64	dbus-tools-1.12.8-26.el8.x86_64
dconf-0.28.0-4.el8.x86_64	dejavu-fonts-common-2.35-7.el8.noarch	dejavu-sans-mono-fonts-2.35-7.el8.noarch	device-mapper-1.02.181-15.el8_10.x86_64
device-mapper-libs-1.02.181-15.el8_10.x86_64	diffutils-3.6-6.el8.x86_64	dmidecode-3.5-1.el8.x86_64	dnf-4.7.0-21.el8_10.noarch
dnf-data-4.7.0-21.el8_10.noarch	dnf-plugins-core-4.0.21-25.el8.noarch	dnf-plugin-subscription-manager-1.28.42-1.el8.x86_64	dos2unix-7.4.0-3.el8.x86_64
dracut-049-233.git20240115.el8.x86_64	dracut-config-rescue-049-233.git20240115.el8.x86_64	dracut-network-049-233.git20240115.el8.x86_64	dracut-squash-049-233.git20240115.el8.x86_64
e2fsprogs-1.45.6-5.el8.x86_64	e2fsprogs-libs-1.45.6-5.el8.x86_64	easg-1.2-0.AV01.el8.x86_64	elfutils-debuginfod-client-0.190-2.el8.x86_64
elfutils-default-yama-scope-0.190-2.el8.noarch	elfutils-libelf-0.190-2.el8.x86_64	elfutils-libs-0.190-2.el8.x86_64	emacs-filesystem-26.1-13.el8_10.noarch
ethtool-5.13-2.el8.x86_64	expat-2.2.5-17.el8_10.x86_64	expect-5.45.4-5.el8.x86_64	fapolicyd-1.3.2-1.el8.x86_64
fapolicyd-selinux-1.3.2-1.el8.noarch	file-5.33-26.el8.x86_64	file-libs-5.33-26.el8.x86_64	filesystem-3.8-6.el8.x86_64
findutils-4.6.0-23.el8_10.x86_64	firewalld-0.9.11-10.el8_10.noarch	firewalld-filesystem-0.9.11-10.el8_10.noarch	fontconfig-2.13.1-4.el8.x86_64
fontpackages-filesystem-1.44-22.el8.noarch	freetype-2.9.1-10.el8_10.x86_64	fribidi-1.0.4-9.el8.x86_64	fstrm-0.6.1-3.el8.x86_64
ftp-0.17-78.el8.x86_64	fuse-2.9.7-19.el8.x86_64	fuse-common-3.3.0-19.el8.x86_64	fuse-libs-2.9.7-19.el8.x86_64
gawk-4.2.1-4.el8.x86_64	gc-7.6.4-3.el8.x86_64	gdb-8.2-20.el8.x86_64	gdb-headless-8.2-20.el8.x86_64
gdbm-1.18-2.el8.x86_64	gdbm-libs-1.18-2.el8.x86_64	gdk-pixbuf2-2.36.12-6.el8_10.x86_64	gdk-pixbuf2-modules-2.36.12-6.el8_10.x86_64
geolite2-city-20180605-1.el8.noarch	geolite2-country-20180605-1.el8.noarch	gettext-0.19.8.1-17.el8.x86_64	gettext-libs-0.19.8.1-17.el8.x86_64

ghostscript-9.27-16.el8_10.x86_64	glib2-2.56.4-165.el8_10.x86_64	glibc-2.28-251.el8_10.16.x86_64	glibc-common-2.28-251.el8_10.16.x86_64
glibc-gconv-extra-2.28-251.el8_10.16.x86_64	glibc-langpack-en-2.28-251.el8_10.16.x86_64	glib-networking-2.56.1-1.1.el8.x86_64	gmp-6.1.2-11.el8.x86_64
gnupg2-2.2.20-3.el8_6.x86_64	gnupg2-smime-2.2.20-3.el8_6.x86_64	gnutls-3.6.16-8.el8_10.3.x86_64	gobject-introspection-1.56.1-1.el8.x86_64
google-droid-sans-fonts-20120715-13.el8.noarch	gpgme-1.13.1-12.el8.x86_64	gpg-pubkey-d4082792-5b32db75	gpg-pubkey-fd431d51-4ae0493b
gpm-libs-1.20.7-17.el8.x86_64	graphite2-1.3.10-10.el8.x86_64	grep-3.1-6.el8.x86_64	groff-base-1.22.3-18.el8.x86_64
grub2-common-2.02-165.el8_10.noarch	grub2-pc-2.02-165.el8_10.x86_64	grub2-pc-modules-2.02-165.el8_10.noarch	grub2-tools-2.02-165.el8_10.x86_64
grub2-tools-extra-2.02-165.el8_10.x86_64	grub2-tools-minimal-2.02-165.el8_10.x86_64	grubby-8.40-49.el8.x86_64	gsettings-desktop-schemas-3.32.0-6.el8.x86_64
gskcrypt64-8.0-60.1.x86_64	gskssl64-8.0-60.1.x86_64	gssproxy-0.8.0-21.el8.x86_64	gtk3-3.22.30-12.el8_10.x86_64
gtk-update-icon-cache-3.22.30-12.el8_10.x86_64	guile-2.0.14-7.el8.x86_64	gzip-1.9-13.el8_5.x86_64	hardlink-1.3-6.el8.x86_64
harfbuzz-1.7.5-4.el8.x86_64	hdparm-9.54-4.el8.x86_64	hesiod-3.2.1-11.el8.x86_64	hicolor-icon-theme-0.17-2.el8.noarch
hostname-3.20-6.el8.x86_64	hwdata-0.314-8.22.el8.noarch	ima-evm-utils-1.3.2-12.el8.x86_64	info-6.5-7.el8.x86_64
initscripts-10.00.18-1.el8.x86_64	insights-client-3.2.2-2.el8.noarch	ipcalc-0.2.4-4.el8.x86_64	iproute-6.2.0-6.el8_10.x86_64
ipset-7.1-1.el8.x86_64	ipset-libs-7.1-1.el8.x86_64	iptables-1.8.5-11.el8_9.x86_64	iptables-ebtables-1.8.5-11.el8_9.x86_64
iptables-libs-1.8.5-11.el8_9.x86_64	iptables-services-1.8.5-11.el8_9.x86_64	iputils-20180629-11.el8.x86_64	irqbalance-1.9.2-1.el8.x86_64
isl-0.16.1-6.el8.x86_64	iwl1000-firmware-39.31.5.1-119.el8_9.1.noarch	iwl100-firmware-39.31.5.1-119.el8_9.1.noarch	iwl105-firmware-18.168.6.1-119.el8_9.1.noarch
iwl135-firmware-18.168.6.1-119.el8_9.1.noarch	iwl2000-firmware-18.168.6.1-119.el8_9.1.noarch	iwl2030-firmware-18.168.6.1-119.el8_9.1.noarch	iwl3160-firmware-25.30.13.0-119.el8_9.1.noarch
iwl5000-firmware-8.83.5.1-119.el8_9.1.noarch	iwl5150-firmware-8.24.2.2-119.el8_9.1.noarch	iwl6000-firmware-9.221.4.1-119.el8_9.1.noarch	iwl6000g2a-firmware-18.168.6.1-119.el8_9.1.noarch
iwl6050-firmware-41.28.5.1-119.el8_9.1.noarch	iwl7260-firmware-25.30.13.0-119.el8_9.1.noarch	jansson-2.14-1.el8.x86_64	jasper-libs-2.0.14-6.el8_10.x86_64
java-17-openjdk-17.0.15.0.6-2.el8.x86_64	java-17-openjdk-headless-17.0.15.0.6-2.el8.x86_64	javapackages-filesystem-5.3.0-1.module+el8+2447+6f56d9a6.noarch	jbig2dec-libs-0.16-1.el8.x86_64
jbigkit-libs-2.1-14.el8.x86_64	json-c-0.13.1-3.el8.x86_64	json-glib-1.4.4-1.el8.x86_64	kbd-2.0.4-11.el8.x86_64
kbd-legacy-2.0.4-11.el8.noarch	kbd-misc-2.0.4-11.el8.noarch	kernel-4.18.0-553.54.1.el8_10.x86_64	kernel-core-4.18.0-553.54.1.el8_10.x86_64
kernel-modules-4.18.0-553.54.1.el8_10.x86_64	kernel-tools-4.18.0-553.54.1.el8_10.x86_64	kernel-tools-libs-4.18.0-553.54.1.el8_10.x86_64	kexec-tools-2.0.26-14.el8_10.2.x86_64

keyutils-1.5.10-9.el8.x86_64	keyutils-libs-1.5.10-9.el8.x86_64	kmod-25-20.el8.x86_64	kmod-libs-25-20.el8.x86_64
kpartx-0.8.4-42.el8_10.x86_64	krb5-libs-1.18.2-31.el8_10.x86_64	ksh-20120801-267.el8.x86_64	langpacks-en-1.0-12.el8.noarch
lcms2-2.9-2.el8.x86_64	less-530-3.el8_10.x86_64	libacl-2.2.53-3.el8.x86_64	libaio-0.3.112-1.el8.x86_64
libarchive-3.3.3-5.el8.x86_64	libassuan-2.5.1-3.el8.x86_64	libatomic-8.5.0-26.el8_10.x86_64	libatomic_ops-7.6.2-3.el8.x86_64
libattr-2.4.48-3.el8.x86_64	libbabeltrace-1.5.4-4.el8.x86_64	libbasicobjects-0.1.1-40.el8.x86_64	libblkid-2.32.1-46.el8.x86_64
libbpf-0.5.0-1.el8.x86_64	libcap-2.48-6.el8_9.x86_64	libcap-ng-0.7.11-1.el8.x86_64	libcollection-0.7.0-40.el8.x86_64
libcom_err-1.45.6-5.el8.x86_64	libcomps-0.1.18-1.el8.x86_64	libcroco-0.6.12-4.el8_2.1.x86_64	libcurl-7.61.1-34.el8_10.3.x86_64
libdaemon-0.14-15.el8.x86_64	libdatrie-0.2.9-7.el8.x86_64	libdb-5.3.28-42.el8_4.x86_64	libdb-utils-5.3.28-42.el8_4.x86_64
libdhash-0.5.0-40.el8.x86_64	libdnf-0.63.0-21.el8_10.x86_64	libdrm-2.4.115-2.el8.x86_64	libedit-3.1-23.20170329cvs.el8.x86_64
libepoxy-1.5.8-1.el8.x86_64	liberation-fonts-common-2.00.3-7.el8.noarch	liberation-mono-fonts-2.00.3-7.el8.noarch	libestr-0.1.10-3.el8.x86_64
libev-4.24-6.el8.x86_64	libevent-2.1.8-5.el8.x86_64	libfastjson-0.99.9-2.el8.x86_64	libfdisk-2.32.1-46.el8.x86_64
libffi-3.1-24.el8.x86_64	libfontenc-1.1.3-8.el8.x86_64	libgcc-8.5.0-26.el8_10.x86_64	libgcrypt-1.8.5-7.el8_6.x86_64
libgomp-8.5.0-26.el8_10.x86_64	libgpg-error-1.31-1.el8.x86_64	libgs-9.27-16.el8_10.x86_64	libgusb-0.3.0-1.el8.x86_64
libibverbs-48.0-1.el8.x86_64	libICE-1.0.9-15.el8.x86_64	libicu-60.3-2.el8_1.x86_64	libidn-1.34-5.el8.x86_64
libidn2-2.2.0-1.el8.x86_64	libijs-0.35-5.el8.x86_64	libini_config-1.3.1-40.el8.x86_64	libipa_hbac-2.9.4-5.el8_10.1.x86_64
libipt-1.6.1-8.el8.x86_64	libjpeg-turbo-1.5.3-14.el8_10.x86_64	libkcapi-1.4.0-2.el8.x86_64	libkcapi-hmacalc-1.4.0-2.el8.x86_64
libksba-1.3.5-9.el8_7.x86_64	libldb-2.8.0-1.el8_10.x86_64	libmaxminddb-1.2.0-10.el8_9.1.x86_64	libmcpp-2.7.2-20.el8.x86_64
libmnl-1.0.4-6.el8.x86_64	libmodman-2.0.1-17.el8.x86_64	libmodulemd-2.13.0-1.el8.x86_64	libmount-2.32.1-46.el8.x86_64
libmpc-1.1.0-9.1.el8.x86_64	libmspack-0.7-0.3.alpha.el8.4.x86_64	libndp-1.7-7.el8_10.x86_64	libnetfilter_conntrack-1.0.6-5.el8.x86_64
libnetfilter_queue-1.0.4-3.el8.x86_64	libnfnlink-1.0.1-13.el8.x86_64	libnfsidmap-2.3.3-59.el8.x86_64	libnftnl-1.2.2-3.el8.x86_64
libnghttp2-1.33.0-6.el8_10.1.x86_64	libnl3-3.7.0-1.el8.x86_64	libnl3-cli-3.7.0-1.el8.x86_64	libnsl2-1.2.0-2.20180605git4a062cf.el8.x86_64
libnsl-2.28-251.el8_10.16.x86_64	libpaper-1.1.24-22.el8.x86_64	libpath_utils-0.2.1-40.el8.x86_64	libpcap-1.9.1-5.el8.x86_64
libpciaccess-0.14-1.el8.x86_64	libpipeline-1.5.0-2.el8.x86_64	libpkgconf-1.4.2-1.el8.x86_64	libpng-1.6.34-5.el8.x86_64
libproxy-0.4.15-5.5.el8_10.x86_64	libpsl-0.20.2-6.el8.x86_64	libpwquality-1.4.4-6.el8.x86_64	libqb-1.0.3-13.el8_7.x86_64
libref_array-0.1.5-40.el8.x86_64	librepo-1.14.2-5.el8.x86_64	libreport-filessystem-2.9.5-15.el8.x86_64	librhsm-0.0.3-5.el8.x86_64

libseccomp-2.5.2-1.el8.x86_64	libsecret-0.18.6-1.el8.x86_64	libselinux-2.9-10.el8_10.x86_64	libselinux-utils-2.9-10.el8_10.x86_64
libsemanage-2.9-11.el8_10.x86_64	libsepol-2.9-3.el8.x86_64	libsigsegv-2.11-5.el8.x86_64	libSM-1.2.3-1.el8.x86_64
libsmartcols-2.32.1-46.el8.x86_64	libsmbclient-4.19.4-7.el8_10.x86_64	libsolv-0.7.20-6.el8.x86_64	libsoup-2.62.3-9.el8_10.x86_64
libsss-1.45.6-5.el8.x86_64	libssh-0.9.6-14.el8.x86_64	libssh-config-0.9.6-14.el8.noarch	libsss_autofs-2.9.4-5.el8_10.1.x86_64
libsss_certmap-2.9.4-5.el8_10.1.x86_64	libsss_idmap-2.9.4-5.el8_10.1.x86_64	libsss_nss_idmap-2.9.4-5.el8_10.1.x86_64	libsss_sudo-2.9.4-5.el8_10.1.x86_64
libstdc++-8.5.0-26.el8_10.x86_64	libsysfs-2.1.0-25.el8.x86_64	libtalloc-2.4.1-0.el8.x86_64	libtasn1-4.13-5.el8_10.x86_64
libtdb-1.4.9-0.el8.x86_64	libteam-1.31-4.el8.x86_64	libtevent-0.16.0-0.el8.x86_64	libthai-0.1.27-2.el8.x86_64
libtiff-4.0.9-34.el8_10.x86_64	libtirpc-1.1.4-12.el8_10.x86_64	libtool-ltdl-2.4.6-25.el8.x86_64	libunistring-0.9.9-3.el8.x86_64
libusb-1.0.23-4.el8.x86_64	libuser-0.62-26.el8_10.x86_64	libutempter-1.1.6-14.el8.x86_64	libuuid-2.32.1-46.el8.x86_64
libverto-0.3.2-2.el8.x86_64	libverto-libev-0.3.2-2.el8.x86_64	libwayland-client-1.21.0-1.el8.x86_64	libwayland-cursor-1.21.0-1.el8.x86_64
libwayland-egl-1.21.0-1.el8.x86_64	libX11-1.6.8-9.el8_10.x86_64	libX11-common-1.6.8-9.el8_10.noarch	libXau-1.0.9-3.el8.x86_64
libxcb-1.13.1-1.el8.x86_64	libXcomposite-0.4.4-14.el8.x86_64	libxcrypt-4.1.1-6.el8.x86_64	libXcursor-1.1.15-3.el8.x86_64
libXdamage-1.1.4-14.el8.x86_64	libXext-1.3.4-1.el8.x86_64	libXfixes-5.0.3-7.el8.x86_64	libXft-2.3.3-1.el8.x86_64
libXi-1.7.10-1.el8.x86_64	libXinerama-1.1.4-1.el8.x86_64	libxkbcommon-0.9.1-1.el8.x86_64	libxml2-2.9.7-19.el8_10.x86_64
libxml2-devel-2.9.7-19.el8_10.x86_64	libXmu-1.1.3-1.el8.x86_64	libXrandr-1.5.2-1.el8.x86_64	libXrender-0.9.10-7.el8.x86_64
libxslt-1.1.32-6.1.el8_10.x86_64	libXt-1.1.5-12.el8.x86_64	libXtst-1.2.3-7.el8.x86_64	libXxf86misc-1.0.4-1.el8.x86_64
libXxf86vm-1.1.4-9.el8.x86_64	libyaml-0.1.7-5.el8.x86_64	libzstd-1.4.4-1.el8.x86_64	linux-firmware-20250325-129.git710a336b.el8_10.noarch
lksctp-tools-1.0.18-3.el8.x86_64	lmdb-libs-0.9.24-2.el8.x86_64	lm_sensors-libs-3.4.0-23.20180522git70f7e08.el8.x86_64	logrotate-3.14.0-6.el8.x86_64
lshw-B.02.19.2-6.el8.x86_64	lsof-4.93.2-1.el8.x86_64	lsscsi-0.32-3.el8.x86_64	lua-5.3.4-12.el8.x86_64
lua-libs-5.3.4-12.el8.x86_64	lz4-libs-1.8.3-3.el8_4.x86_64	lzo-2.08-14.el8.x86_64	mailx-12.5-29.el8.x86_64
man-db-2.7.6.1-18.el8.x86_64	mariadb-connector-c-3.1.11-2.el8_3.x86_64	mariadb-connector-c-config-3.1.11-2.el8_3.noarch	mcpp-2.7.2-20.el8.x86_64
memstrack-0.2.5-2.el8.x86_64	microcode_ctl-20250211-1.el8_10.x86_64	mozjs60-60.9.0-4.el8.x86_64	mpfr-3.1.6-1.el8.x86_64
mt-st-1.1-24.el8.x86_64	ncurses-6.1-10.20180224.el8.x86_64	ncurses-base-6.1-10.20180224.el8.noarch	ncurses-compat-libs-6.1-10.20180224.el8.x86_64

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net-snmp-utils-5.8-30.el8.x86_64	nettle-3.4.1-7.el8.x86_64	net-tools-2.0-0.52.20160912git.el8.x86_64	NetworkManager-1.40.16-19.el8_10.x86_64
NetworkManager-libnm-1.40.16-19.el8_10.x86_64	NetworkManager-team-1.40.16-19.el8_10.x86_64	NetworkManager-tui-1.40.16-19.el8_10.x86_64	network-scripts-10.00.18-1.el8.x86_64
network-scripts-team-1.31-4.el8.x86_64	newt-0.52.20-11.el8.x86_64	nfs-utils-2.3.3-59.el8.x86_64	nftables-1.0.4-7.el8_10.x86_64
npth-1.5-4.el8.x86_64	nscd-2.28-251.el8_10.16.x86_64	nspr-4.35.0-1.el8_8.x86_64	nss-3.101.0-11.el8_8.x86_64
nss-pam-ldapd-0.9.9-5.el8.x86_64	nss-softokn-3.101.0-11.el8_8.x86_64	nss-softokn-freebl-3.101.0-11.el8_8.x86_64	nss-sysinit-3.101.0-11.el8_8.x86_64
nss-util-3.101.0-11.el8_8.x86_64	numactl-libs-2.0.16-4.el8.x86_64	oddjob-0.34.7-3.el8.x86_64	oddjob-mkhomedir-0.34.7-3.el8.x86_64
openjpeg2-2.4.0-5.el8.x86_64	openldap-2.4.46-21.el8_10.x86_64	openldap-clients-2.4.46-21.el8_10.x86_64	opensc-0.20.0-8.el8_9.x86_64
openssh-8.0p1-25.el8_10.x86_64	openssh-clients-8.0p1-25.el8_10.x86_64	openssh-server-8.0p1-25.el8_10.x86_64	openssl-1.1.1k-14.el8_6.x86_64
openssl-libs-1.1.1k-14.el8_6.x86_64	openssl-pkcs11-0.4.10-3.el8.x86_64	open-vm-tools-12.3.5-2.el8.x86_64	os-prober-1.74-9.el8.x86_64
p11-kit-0.23.22-2.el8.x86_64	p11-kit-trust-0.23.22-2.el8.x86_64	pam-1.3.1-36.el8_10.x86_64	pango-1.42.4-8.el8.x86_64
parted-3.2-39.el8.x86_64	passwd-0.80-4.el8.x86_64	pciutils-3.7.0-3.el8.x86_64	pciutils-libs-3.7.0-3.el8.x86_64
pcre2-10.32-3.el8_6.x86_64	pcre-8.42-6.el8.x86_64	pcsc-lite-1.9.5-1.el8.x86_64	pcsc-lite-ccid-1.4.29-5.1.el8_4.x86_64
pcsc-lite-libs-1.9.5-1.el8.x86_64	perl-Carp-1.42-396.el8.noarch	perl-constant-1.33-396.el8.noarch	perl-Data-Dumper-2.167-399.el8.x86_64
perl-Digest-1.17-395.el8.noarch	perl-Digest-MD5-2.55-396.el8.x86_64	perl-Encode-2.97-3.el8.x86_64	perl-Errno-1.28-422.el8.x86_64
perl-Exporter-5.72-396.el8.noarch	perl-File-Path-2.15-2.el8.noarch	perl-File-Temp-0.230.600-1.el8.noarch	perl-Getopt-Long-2.50-4.el8.noarch
perl-HTTP-Tiny-0.074-3.el8.noarch	perl-interpreter-5.26.3-422.el8.x86_64	perl-IO-1.38-422.el8.x86_64	perl-IO-Socket-IP-0.39-5.el8.noarch
perl-IO-Socket-SSL-2.066-4.module+el8.3.0+6446+594cad75.noarch	perl-libnet-3.11-3.el8.noarch	perl-libs-5.26.3-422.el8.x86_64	perl-macros-5.26.3-422.el8.x86_64
perl-MIME-Base64-3.15-396.el8.x86_64	perl-Mozilla-CA-20160104-7.module+el8.3.0+6498+9eecfe51.noarch	perl-Net-SSLeay-1.88-2.module+el8.6.0+13392+f0897f98.x86_64	perl-parent-0.237-1.el8.noarch
perl-PathTools-3.74-1.el8.x86_64	perl-Pod-Escapes-1.07-395.el8.noarch	perl-podlators-4.11-1.el8.noarch	perl-Pod-Perldoc-3.28-396.el8.noarch
perl-Pod-Simple-3.35-395.el8.noarch	perl-Pod-Usage-1.69-395.el8.noarch	perl-Scalar-List-Utils-1.49-2.el8.x86_64	perl-Socket-2.027-3.el8.x86_64
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perl-Text-Tabs+Wrap-2013.0523-395.el8.noarch	perl-threads-2.21-2.el8.x86_64	perl-threads-shared-1.58-2.el8.x86_64	perl-Time-Local-1.280-1.el8.noarch

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redhat-release-eula-8.10-0.3.el8.x86_64	rest-0.8.1-2.el8.x86_64	rhc-0.2.5-1.el8_10.x86_64	rng-tools-6.16-1.el8.x86_64
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xinetd-2.3.15-25.el8.x86_64	xkeyboard-config-2.28-1.el8.noarch	xmlsec1-1.2.25-8.el8_10.x86_64	xmlsec1-openssl-1.2.25-8.el8_10.x86_64
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