



Call Management System (CMS)
R20.0
Release Notes
Issue 5.0
July 16, 2024

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1. Purpose

The release notes provide summary information about the GA version of the Call Management System (CMS) R20.0.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 R20.0.X, please see the product documentation posted at <http://support.avaya.com>.

The following table provides acquisition information for the CMS R 20.0.X software:

Product	Software Acquisition	Required Patch or PSN
Call Management System R20.0	CUE upgrade to R20. No base load upgrades are allowed from pre-R20 releases. CMS Release 20.0 supports platform up-grades from CMS Releases 16.x, 17.x, 18.x, and 19.x. Avaya Contact Centre – Extended Capacity R20 CI(RHEL7) to CMS R20(RHEL8) requires a CUE upgrade. If customers are running a pre-20.0.0.x CMS on one of the supported physical servers (Dell R630, Dell R730, HPE 380 G9) an A1S design and order is required to upgrade to CMS 20.0.0.0. If customers have a virtual deployment of CMS, the CMS R20.0.0.0 OVA file can be acquired from PLDS. This includes CMS deployments on the Avaya Solutions Platform (ASP) servers.	Please note a different OVA file is required for use with AWS and GCP.
	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.10 CMS Terminal Emulator QA.10 CMS Network Reporting QA.10	None

	CMS Linux RPM Updates: The version of CMS 20.0.1.2 available on July 16, 2024, has all current Linux RPMs available at the time of posting the 20.0.1.2 OVA files.	None
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2. Document Change History

Issue Number	Date	Comment
1.0	6 June 2023	Initial Version for CMS 20.0.x GA
1.1	21 July 2023	Record fix of CVE-2023-3527 vulnerability
2.0	21 August 2023	Announcement of 20.0.0.1 (aka Service Pack 1). Bug fixes are documented in the appropriate sections of this document.
2.1	29 August 2023	Record fix of CMS-8151
3.0	20 November 2023	Announcement of 20.0.1.0 Bug fixes are documented in the appropriate sections of this document.
4.0	21 February 2024	Announcement of 20.0.1.1 Bug fixes are documented in the appropriate sections of this document.
5.0	16 July 2024	Announcement of 20.0.1.2 Bug fixes are documented in the appropriate sections of this document.

3. CMS 20.0.1.2 Information

3.1. 20.0.1.2 New Elements

CMS 20.0.1.2 introduces the following new elements:

- PC Supervisor QA.10
- Tomcat update to 9.0.90
- RHEL rpm updates

3.2. 20.0.1.2 Bug Fixes

CMS Server fixes

Jira	Customer Reference	Summary
CMS-8193		Remove reliance on ping for LDAP check.

Web Client fixes

Jira	Customer Reference	Summary
CMS-8782	PEA 1-8P8JPE6 / SR# 1-18862973182	Web client not migrating precision of zero in tables
CMS-8527	INC4966527	The data in the export file has an additional Text Delimiter ""
CMS-8526	PEA 1-A3RQ8LJ / SR# 1-21975001542	Report Export : Numeric values in Disposition column

CMS-8498	PEA 1-8D5K81Y / SR# 1-18116713674	Charts missing after report migration
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PC Client fixes

Jira	Customer Reference	Summary
CMS-8483	PEA 1-A3HTUKU / SR# 1-21753222952	Not able to change an owner from a designer report
CMS-8440	PEA 1-9XU603S / SR# 1-21609506572	Report Designer: Operand 2 dropdown menu not available.

4. CMS 20.0.1.1 Information**4.1. 20.0.1.1 New Functionality**

CMS 20.0.1.1 introduces the following new functionality:

- PC Supervisor PA.28
- Tomcat update to 9.0.85
- RHEL rpm updates
- Thresholds Rework
 - When dictionary name is changed for items the thresholds can still be added, modified and deleted and the threshold screens will reflect the updated dictionary strings. E.g., if ACD is renamed to then you can create a threshold for an agent with agstate DACIN and if you then change the dictionary again say to CAD the thresholds set for DACIN will continue to work even though it now displays in the report as CADIN (and the threshold screens will also reflect the update string).
 - Note: Existing thresholds are not preserved for this upgrade due to a change in the way they are stored on the server.

4.2. 20.0.1.1 Bug Fixes**Web Client fixes**

Jira	Customer Reference	Summary
CMS-8343		Web client not handling 'IS NULL' in a report select statement
CMS-8196	PEA 1-99XGHR1 / SR# 1-20165189832	Web client thresholds don't work when dictionary name for workmode etc. changed
CMS-5886	PEA 1-81K5DQZ / SR# 1-17501631521	Migrated report doesn't honor font settings in table

PC Client fixes

Jira	Customer Reference	Summary
CMS-8441	PEA# 1-A3AUTHS / SR# 1-21960686604	PC Supervisor : Registry Entries Not Copied to R20 on Upgrade from R19
CMS-8280	SR# 1-20242472452	PC client: Agent ranges don't work correctly if the agent ID begins with a 0

4.3. Known Issues with 20.0.1.1

- Title formats in horizontal tables are not honored.

5. CMS 20.0.1.0 Information**5.1. 20.0.1.0 New Functionality**

CMS 20.0.1.0 introduces the following new functionality:

- Zero Down Time ZDT Support (in conjunction with Admin-Sync 7.1.7)
See Application Note for CMS ZDT improvements for more detail.
(<https://support.avaya.com/css/public/documents/101087276>)
 - Automate HA Setup
 - Real time replication of Admin data to Secondary
 - Block admin on secondary CMS
 - Command line running of Admin-Sync menu items
- PC Supervisor PA.22
- Tomcat update to 9.0.82
- RHEL rpm updates

5.2. 20.0.1.0 Bug Fixes**CMS Server fixes**

Jira	Customer Reference	Summary
CMS-8175	PEA# 1-99FX8PD / SR# 1-20132688542	OpenSSH Updated

Web Client fixes

Jira	Customer Reference	Summary
CMS-6091	SR# 1-17766208976	cmsweb not using full screen real estate
CMS-8177		Handle special chars in password when changing password or setting password in cmsweb

PC Client fixes

Jira	Customer Reference	Summary
CMS-8250	SR# 1-17766208976	In PA11 user screen fails to display when connected to R20 and earlier CMS Server versions

5.3. *Known Issues with 20.0.1.0*

- Drag and drop of items in Lists in web report designer fails
- From ascii menu admin actions can be done from secondary

6. CMS 20.0.0.1 Information**6.1. *20.0.0.1 New Functionality***

CMS 20.0.0.1 introduces the following new functionality:

- Tomcat update to 9.0.78
- RHEL rpm updates
- L10N Online Help
- Mega ACD integration fixes

Jira	Customer Reference	Summary
CMS-7268	GRP3BU-7146	Forced Password Expiration on new account

A new option has been added to allow a forced password expiration on a new account. The default is to force the user to change password at next logon.

The screenshot shows the AVAYA CMS Supervisor Web interface. The top navigation bar includes 'Home', 'Reports', and 'Administration'. The 'Administration' menu is expanded, showing options like 'Agent Administration', 'Dictionary', 'Exceptions', 'Call Center Administration', 'Tenant Administration', 'User Permissions', 'User Data', 'Feature Access', 'Main Menu Addition Access', 'Split/Skill Access', 'Trunk Group Access', 'ACD Access', 'Vector Access', 'VDN Access', 'Tenant Access', 'System Setup', 'Maintenance', and 'Other'. The 'Change User Password' option is highlighted. The main content area displays the 'Change User Password' form with fields for 'User ID', 'New password', and 'Confirm new password'. There is a checkbox for 'User must change password at next logon' and 'Apply' and 'Reset' buttons.

6.2. 20.0.0.1 Bug Fixes

CMS Server fixes

Jira	Customer Reference	Summary
CMS-8151	PEA 1-982FTAE SR# 1-20014410461	When adding disk, execution of dbinit.sh add_disks fails.

Web Client fixes

Jira	Customer Reference	Summary
CMS-8146	SR# 1-19967745552	In report tables, numeric fields are not sorted numerically, they are sorted as strings
CMS-8149	PEA 1-98UINWK SR# 1-20114461692	CMSWeb: historical>agent>login/logout(skill) report not showing AM/PM after login times

6.3. Known Issues with 20.0.0.1

No known issues.

Possible condition to correct: If Microsoft Defender is installed on the CMS server, verify Endpoint Security for Linux Threat Prevention processes are not active before executing rpm_update. Execute the following before executing rpm_update:

```
/opt/McAfee/ens/tp/init/mfetpd-control.sh stop
/opt/McAfee/ens/esp/init/mfeespd-control.sh stop
```

If the mfe commands are not executed prior to rpm_update, rpm_update will still execute successfully, but a specific rpm install (setup) will not execute successfully. This will not cause any issues.

7. CMS R20.0 Functionality

The CMS R20.0.0.0 release provides the following platform and feature support:

7.1. *CMS 20.0.0.0 CMS Platform Support*

CMS R20.0.0.0 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. Please see section 10 for details.
- Virtualized deployments in Google Cloud Platform (GCP). Please see section 10 for details.
- Support **upgrades ONLY** on the following servers: Dell R630, Dell R730 and HPE DL380 G9.
 - No other hardware platforms are supported

All software upgrades to CMS 20.0.0.0 must perform a CUE upgrade. No base load upgrades are allowed from pre-R20 releases.

Avaya Contact Centre – Extended Capacity R20 CI(RHEL7) to CMS R20(RHEL8) requires a CUE upgrade.

7.2. *New CMS Features in 20.0.0.0*

This release contains several new features and security related enhancements.

- Web Client Report Designer
- RHEL8
- Avaya Contact Center – Extended Capacity support
 - Avaya Contact Center – Extended Capacity Routing Core (Mega ACD) support
 - SPI L25 - capacity increases including to 33,000 agents.
- Web Client Performance – Supervisor User increase to 1999 per CMS
- Support for GCP
- Audit logging for administrative actions
- OKTA support
- Tomcat update
- Anti-Virus support
 - MS Defender
 - McAfee/Trellix
- Data Backup Product Support

- IBM Spectrum 8.1.15 client release
- Netbackup 10.1
- ODBC Logging
- Configurable Web Client Timeout
- Security related enhancements

7.3. Features no longer available in 20.0.0.0

Features that are no longer available with CMS R20

- New non-EAS ACDs cannot be added on CMS R20. Migration of non-EAS ACDs to CMS R20 from previous releases will not be supported.

7.4. Bugs Fixed in 20.0.0.0

CMS Server fixes

Jira	Customer Reference	Summary
CMS-6177	PEA 1-8KZVK50 / SR# 1-18681800132	Slow performance after upgrade.
CMS-7109	SR # 1-19317109442	ODBC License Error Mode is incorrect to state CMS will enter License Restricted Mode

PC Client fixes

Jira	Customer Reference	Summary
CMS-7145	PEA 1-8X15M8M / SR# 1-19404643961	PC client Data Storage Allocation (DSA) screen not displaying correctly for R18/R17 CMSs connected to R19 PC client
CMS-7144	PEA 1-8XO7OFY / SR# 1-19448103325	PC client limits Location ID on report inputs to 0-250 instead of dynamic value
CMS-7061	SR# 1-19147492191	PC Supervisor: Allow select time zone in Add Button to Run Report
CMS-6004	SR# 1-17859819272	Call Work Code Dictionary Values Not Displayed in Reports
CMS-5966	SR# 1-17835546552 / PEA# 1-877R3IE	Historical Call Records Report: Designer Changes Time Point Type Input to Time Duration Type
CMS-5942	SR# 1-17461307637 / PEA# 1-85WI7P7	Designer report output shifts to the right when center alignment is used
CMS-4343	SR# 1-16061383781	Dictionary Names Can Be Created Containing Wildcard Characters [* , ?] That Cause Issues When Deleting Entries
CMS-1971	SR# 1-13830956697 / 1-6DRR00D	PC Supervisor: Reports: Reload from Registry: Mismatch bytes vs Characters

Web Client fixes

Jira	Customer Reference	Summary
CMS-6314	PEA 1-8NGQRVB	LDAP login failure is not displayed on cmsweb
CMS-6237	PEA 1-8MI1S9I / SR# 1-18765912832	Web client search results unclear, reports do not open
CMS-6231	PEA 1-8LCQWJO / SR# 1-18667125052	Migrated web client integrated reports fail to run and result in a server error rather than the report displaying data.
CMS-5973	PEA 1-87IUCCR / SR# 1-17859346712	CMS Web Admin screen for Maintenance backup becomes stuck on Estimating space for backup
CMS-4494	PEA 1-87IUCCR / SR# 1-17859346712	CMS Web backup hangs / cannot be cancelled from cmsweb once it started
CMS-7071	PEA 1-8SMXF8N / SR# 1-19120790452	Web client creates malformed query to server when LIKE is used in a report query
CMS-7100	PEA 1-8URJVIY / SR# 1-19260263802	Thresholds not retaining correct value when changed on web client
CMS-7083	PEA 1-8U5O8LP / SR# 1-19232773492	Non English date ranges return data for only one date in cms web reports
CMS-6089	PEA 1-8D5AEY6 / SR# 1-18119182456	Web client unable to run reports with field IN (list) in a query
CMS-6179	PEA 1-8KZVKS0 / SR #1-18681800132	Prevent web client from migrating or attempting to run reports that will resolve to more than 127 queries
CMS-6185	PEA 1-8LCJA7V / SR# 1-18685981452	After export report data to clipboard from cms web client, pasting into Excel puts all data in first column
CMS-7070	PEA 1-8SMXF8N / SR# 1-19120790452	Web client creates malformed query to server when LIKE is used in a report query
CMS-7072	PEA 1-8SMXF8N / SR# 1-19120790452	Web client reporting cannot handle more than one of certain constructs within a where clause
CMS-7086	PEA 1-8U5O8LP / SR# 1-19232773492	Non English date ranges return data for only one date in cms web reports
CMS-7097	PEA 1-8URJVIY / SR# 1-19260263802	Thresholds not retaining correct value when changed on web client
CMS-7113	PEA 1-8UZ5OQT / SR# 1-19284790282	Report with historical query against multiple tables fails to run on web
CMS-7122	PEA 1-8VWQX6E / SR# 1-19298886362	Locale specific formatting of numbers not being performed
CMS-7257	PEA 1-8ZL3HBU / SR# 1-19512152672	Web client not sorting correctly for time columns
CMS-7027	CVE-2023-3527	Supervisor csv exports may subject downstream to be vulnerable to CSV Injection

7.5. *Known Issues with 20.0*

- On very rare occasions during CMS installs the system boots up in emergency mode. The system is stable and fully intact. See PSN [PSN006189u](#) for resolution and further details.
- RHEL has announced they have deprecated the use of all numeric usernames, all numeric usernames will not be allowed. See PSN [PSN006161u](#) for further details.

8. Deployment Notes

This section contains information related to CMS R20.0 deployment in virtual environments.

CMS R20.0 supports deployment in VMware ESXi 7.0 and 8.0.

8.1. *OVA file(s)*

- One OVA file is provided for use with VMware deployments.
- One OVA file is provided for use with Cloud deployments. (-cloud in ova name)

9. CMS Connectors

Admin Sync is an offer used for CMS High Availability. Admin Sync ensures all Designer Reports are synchronized between the Primary and Secondary CMS systems. CMS R20.0 should have the Admin-Sync version 7.1.7 (or newer) installed.

Other CMS Connection Information

CMS Connectors are add-on interfaces that provide extra functionality on top of the standard CMS platform. Some examples are: CMS high availability and survivability support, historical data unloads, real time and historical Workforce Management, and real-time data feeds to both Avaya provided solutions (POM, ADW) and third-party servers.

As an example, two common CMS connectors that customers purchase are HA Admin Sync and ECH Handler. For a full list of the available CMS connectors, go to <https://support.avaya.com> and search for “CMS Connectors Overview”.

These connectors are usually implemented and supported by Avaya Professional Services but also may be installed by business partners. The most common connectors are available directly via A1S for ordering, WebLM for licensing, and PLDS for downloading. Look under the “CMS Connectors” product in PLDS.

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.

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 R20.0. Always go to <http://support.avaya.com>, to obtain a current copy of the documents for each product release.

Appendix A: Linux RPMs included in CMS R20.0.1.2

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-0.7-20.el8.x86_64	avahi-libs-0.7-20.el8.x86_64	basesystem-11-5.el8.noarch
bash-4.4.20-5.el8.x86_64	bc-1.07.1-5.el8.x86_64	bind-export-libs-9.11.36-14.el8_10.x86_64	bind-libs-9.11.36-14.el8_10.x86_64
bind-libs-lite-9.11.36-14.el8_10.x86_64	bind-license-9.11.36-14.el8_10.noarch	bind-utils-9.11.36-14.el8_10.x86_64	binutils-2.30-123.el8.x86_64
biosdevname-0.7.3-2.el8.x86_64	brotli-1.0.6-3.el8.x86_64	bzip2-1.0.6-26.el8.x86_64	bzip2-libs-1.0.6-26.el8.x86_64
ca-certificates-2023.2.60_v7.0.306-80.0.el8_8.noarch	cairo-1.15.12-6.el8.x86_64	cairo-gobject-1.15.12-6.el8.x86_64	c-ares-1.13.0-10.el8.x86_64
checkpolicy-2.9-1.el8.x86_64	chkconfig-1.19.2-1.el8.x86_64	chrony-4.5-1.el8.x86_64	cmake-filesystem-3.26.5-2.el8.x86_64
cms-R20.0.1.2-Lbe.a.x86_64	cmsweb-R20.0.1.2-web20be.a.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-8.5.0-22.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-2.3.7-7.el8.x86_64
cryptsetup-libs-2.3.7-7.el8.x86_64	cups-2.2.6-57.el8.x86_64	cups-client-2.2.6-57.el8.x86_64	cups-filesystem-2.2.6-57.el8.noarch
cups-filters-1.20.0-34.el8.x86_64	cups-filters-libs-1.20.0-34.el8.x86_64	cups-ipptool-2.2.6-57.el8.x86_64	cups-libs-2.2.6-57.el8.x86_64
curl-7.61.1-34.el8.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-1.02.181-14.el8.x86_64	device-mapper-libs-1.02.181-14.el8.x86_64	dhcp-client-4.3.6-50.el8_10.x86_64
dhcp-common-4.3.6-50.el8_10.noarch	dhcp-libs-4.3.6-50.el8_10.x86_64	diffutils-3.6-6.el8.x86_64	dmidecode-3.5-1.el8.x86_64
dnf-4.7.0-20.el8.noarch	dnf-data-4.7.0-20.el8.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-26.1-11.el8.noarch	ethtool-5.13-2.el8.x86_64	expat-2.2.5-13.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-4.6.0-22.el8.x86_64	firewalld-0.9.11-4.el8.noarch	firewalld-filesystem-0.9.11-4.el8.noarch
fontconfig-2.13.1-4.el8.x86_64	fontpackages-filesystem-1.44-22.el8.noarch	freetype-2.9.1-9.el8.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	gcc-8.5.0-22.el8_10.x86_64
gcc-gdb-plugin-8.5.0-22.el8_10.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-9.27-13.el8_10.x86_64
giflib-5.1.4-3.el8.x86_64	glib2-2.56.4-162.el8.x86_64	glibc-2.28-251.el8_10.2.x86_64	glibc-common-2.28-251.el8_10.2.x86_64
glibc-devel-2.28-251.el8_10.2.x86_64	glibc-gconv-extra-2.28-251.el8_10.2.x86_64	glibc-headers-2.28-251.el8_10.2.x86_64	glibc-langpack-en-2.28-251.el8_10.2.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_9.3.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
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grub2-pc-modules-2.02-156.el8.noarch	grub2-tools-2.02-156.el8.x86_64	grub2-tools-extra-2.02-156.el8.x86_64	grub2-tools-minimal-2.02-156.el8.x86_64
grubby-8.40-49.el8.x86_64	gsettings-desktop-schemas-3.32.0-6.el8.x86_64	gskcrypt64-8.0-50.88.x86_64	gssapi-8.0-50.88.x86_64
gssproxy-0.8.0-21.el8.x86_64	gtk3-3.22.30-11.el8.x86_64	gtk-update-icon-cache-3.22.30-11.el8.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	hpssacli-2.0-23.0.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
iw1000-firmware-39.31.5.1-121.el8.1.noarch	iw100-firmware-39.31.5.1-121.el8.1.noarch	iw105-firmware-18.168.6.1-121.el8.1.noarch	iw135-firmware-18.168.6.1-121.el8.1.noarch
iw2000-firmware-18.168.6.1-121.el8.1.noarch	iw2030-firmware-18.168.6.1-121.el8.1.noarch	iw3160-firmware-25.30.13.0-121.el8.1.noarch	iw5000-firmware-8.83.5.1_1-121.el8.1.noarch

iwl5150-firmware-8.24.2.2-121.el8.1.noarch	iwl6000-firmware-9.221.4.1-121.el8.1.noarch	iwl6000g2a-firmware-18.168.6.1-121.el8.1.noarch	iwl6050-firmware-41.28.5.1-121.el8.1.noarch
iwl7260-firmware-25.30.13.0-121.el8.1.noarch	jansson-2.14-1.el8.x86_64	jasper-libs-2.0.14-5.el8.x86_64	java-17-openjdk-17.0.11.0.9-2.el8.x86_64
java-17-openjdk-headless-17.0.11.0.9-2.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-4.18.0-553.5.1.el8_10.x86_64	kernel-core-4.18.0-553.5.1.el8_10.x86_64	kernel-headers-4.18.0-553.5.1.el8_10.x86_64
kernel-modules-4.18.0-553.5.1.el8_10.x86_64	kernel-tools-4.18.0-553.5.1.el8_10.x86_64	kernel-tools-libs-4.18.0-553.5.1.el8_10.x86_64	kexec-tools-2.0.26-14.el8.x86_64
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kpartx-0.8.4-41.el8.x86_64	krb5-libs-1.18.2-27.el8_10.x86_64	ksh-20120801-267.el8.x86_64	langpacks-en-1.0-12.el8.noarch
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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	libcoco-0.6.12-4.el8_2.1.x86_64	libcurl-7.61.1-34.el8.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-0.63.0-19.el8.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
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-8.5.0-22.el8_10.x86_64	libgcrypt-1.8.5-7.el8_6.x86_64	libgomp-8.5.0-22.el8_10.x86_64
libgpg-error-1.31-1.el8.x86_64	libgs-9.27-13.el8_10.x86_64	libusb-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-2.9.4-3.el8_10.x86_64	libipt-1.6.1-8.el8.x86_64
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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-1.7-6.el8.x86_64	libnetfilter_conntrack-1.0.6-5.el8.x86_64
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libnghttp2-1.33.0-5.el8_9.x86_64	libnl3-3.7.0-1.el8.x86_64	libnl3-cli-3.7.0-1.el8.x86_64	libns12-1.2.0-2.20180605git4a062cf.el8.x86_64

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libseccomp-2.5.2-1.el8.x86_64	libsecret-0.18.6-1.el8.x86_64	libseldlinux-2.9-8.el8.x86_64	libseldlinux-utils-2.9-8.el8.x86_64
libsemanage-2.9-9.el8_6.x86_64	libsepol-2.9-3.el8.x86_64	libsigsegv-2.11-5.el8.x86_64	libSM-1.2.3-1.el8.x86_64
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libXinerama-1.1.4-1.el8.x86_64	libxkbcommon-0.9.1-1.el8.x86_64	libxml2-2.9.7-18.el8_10.1.x86_64	libxml2-devel-2.9.7-18.el8_10.1.x86_64
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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
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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
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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
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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
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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
perl-Storable-3.11-3.el8.x86_64	perl-Term-ANSIColor-4.06-396.el8.noarch	perl-Term-Cap-1.17-395.el8.noarch	perl-Text-ParseWords-3.30-395.el8.noarch
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
perl-Unicode-Normalize-1.25-396.el8.x86_64	perl-URI-1.73-3.el8.noarch	pigz-2.4-4.el8.x86_64	pinentry-1.1.0-2.el8.x86_64
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