



VOSS Insights Release Notes

Jan 14, 2022

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1. Dashboard and Arbitrator Server Version Compatibility

Important: VOSS-4-UC 20.1 is not compatible with any of these versions.

See the Compatibility Matrix document.

For download and upgrade instructions, see VOSS Insights Install Guide.

Also refer to the [Software EoS Policy & Support Matrix](#)

2. Dashboard and Reporting Server

2.1. Release Notes for Dashboard and Reporting (SP66)

2.1.1. UI Changes

- Minor UI changes for the new year. New icons and new fonts used throughout UI.
- Custom favicon can now be imported.
- Customizable login privacy text.
- More color options added for dashboards and widgets.
- More color options added for arbitrator.
- “EmptyGroup” text used in widgets can now be customized by user.
- New summary row option added to tables.
- Widget editor will now auto update its preview chart upon any field changes.

2.1.2. Data Definition Changes

- New data definitions added for VOSS Automate Msgraph, Msteams, and Spark objects.
 - `device/msgraph/MsolUser`
 - `device/msgraph/MsolAccountSku`
 - `device/msteamsonline/CsOnlineUser`
 - `device/msteamsonline/CsTeamsClientConfiguration`
 - `device/msteamsonline/CsAutoAttendant`
 - `device/msteamsonline/CsCallQueue`
 - `device/spark/User`
 - `device/spark/License`
 - `device/spark/Device`
 - `device/spark/Place`
- New data definitions added for Webex API data.

2.1.3. Dashboards

- New dashboards for VOSS Automate MSgraph, MS Teams, and Spark.
- New dashboards for Webex API data.

2.1.4. Other Changes

- Enhancement - sync by permission group support added to SSO users.
- Enhancement - improved the download times of larger CSV files.
- Enhancement - websockets library upgraded to support Firefox.
- Miscellaneous bug fixes.

2.2. Release Notes for Dashboard and Reporting (SP65)

2.2.1. New Features and Enhancements

- Show a chart and a table: a **Show Data Table** check box for the following charts:
 - Line Area Chart in the VOSS Insights Dashboard and Reporting Administration Guide
 - Column Bar Chart in the VOSS Insights Dashboard and Reporting Administration Guide
 - Combo Chart in the VOSS Insights Dashboard and Reporting Administration Guide
- Theme Management enhancements:
 - Add a login background image
 - Change the widget header colour
 - Change the Widget background colour
 - Change the Burger menu colour
 - Change the title of the tabs
 - Change text colours for Widget header, login and burger menu to avoid colour clashes

These themes can also be applied to an arbitrator.

See:

Theme Management in the VOSS Insights Dashboard and Reporting Administration Guide

- Report Synchronization.

Users generate scheduled reports and can add people to a receive a report.

See the **Report Synchronization** tab under :

Manage Dashboards in the VOSS Insights Dashboard and Reporting Administration Guide

- Widget data can be filtered before download.

See:

Managing a Widget in the VOSS Insights Dashboard and Reporting Administration Guide

2.3. Release Notes for Dashboard and Reporting (SP64)

2.3.1. Security Updates

- `sudo` package updated to v1.9.7.
- `curl` package updated to v7.76.1.
- `postgres` package updated to v12.7.
- `kafka` package updated to v2.8.0.

2.3.2. New Features

- API support added to fetch and set product key.
- New Tree Table Renderer configuration screen. This will allow users to control how data is grouped per tree table. (Table 2 Widget Only)

The screenshot shows the 'Tree Table Renderers' configuration interface. It includes a list of available fields on the left and configuration options for three levels of a tree table on the right. The 'Tree Type' is set to 'Combine fields'. Each level (Level 1, 2, and 3) has a 'Drop Zone' for field selection and a 'Format' field with a placeholder 'prefix (1) and (2) suffix'. The 'Header' field for Level 1 is set to 'No sort'.

Warning: Existing widgets using the table tree renderer require manual modification after the upgrade to SP64.

- New config screen added to allow customer ndx file retention times. Default is 6 months.

Ndx

This screen can be used to manage Ndx files on the system.

max_ndx_file_size

1

The maximum size the ndx searchable file should be. Once the max size is hit, the ndx server will create a new ndx file.

max_searchable_days

1

The maximum number of days that should be searchable. Ndx files greater than this time will still live on the system but will not be searchable from the UI.

monthsKept

6

The maximum number of months to keep ndx archives around. Each archived ndx will take up disk space. Warning, increasing this number too large may require customer to also increase the hard disk size.

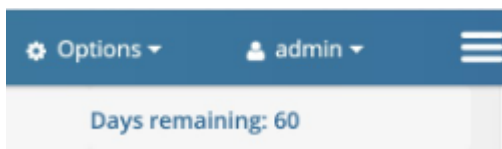
- New Password Policy screen that can be used to enforce UI user password policy.

Password Policy

Minimum Length	5	
Minimum Uppercase	0	A-Z
Minimum Lowercase	0	a-z
Minimum Numeric	0	0-9
Minimum Special	0	!@#\$%^&*()[]
Password Lifespan	0	days
Maximum Login Attempts	10	

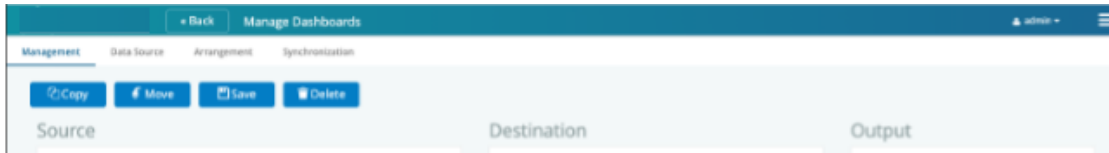
Save

- The remaining days on the License will now be displayed in UI upon login.

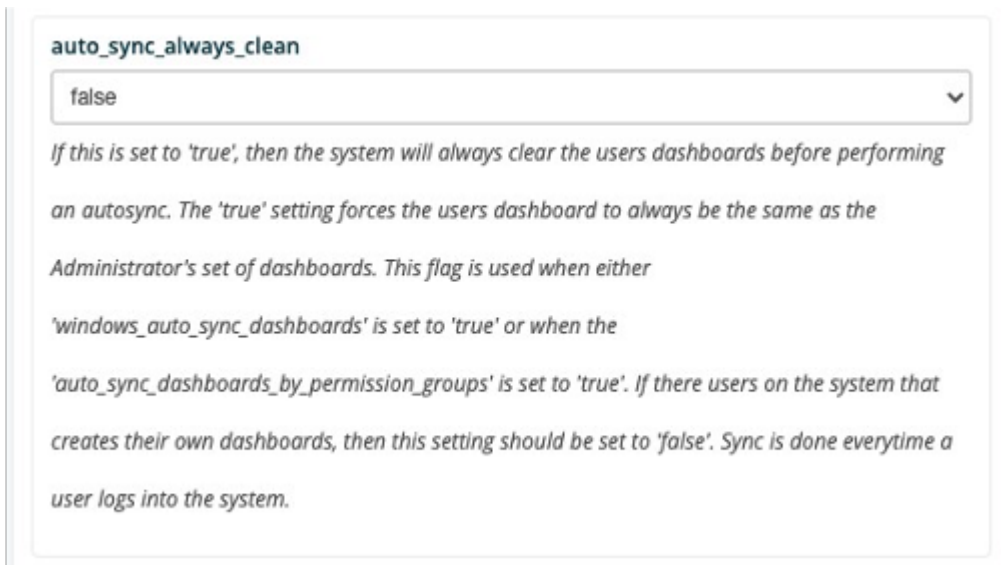


2.3.3. Enhancements

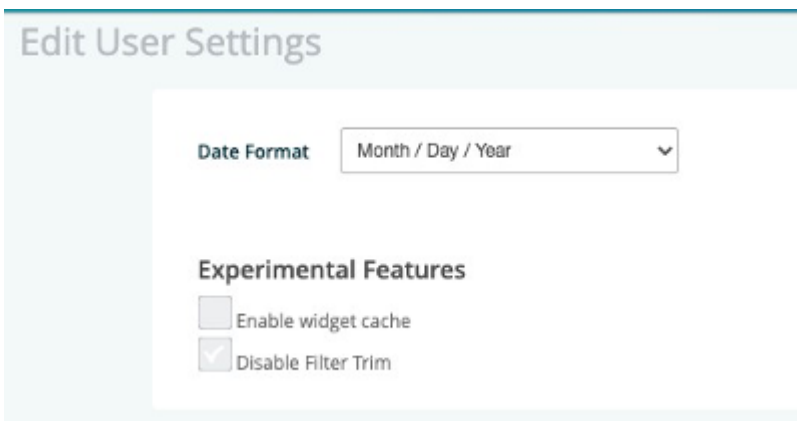
- Dashboard UTC / Local date toggle will update date picker times to reflect accordingly.
- Widget option to “Download all data” will now take into consideration the filter applied.
- New Manage Dashboards Screens. Supports better management of dashboards and folders. Easier way to change data sources across multiple dashboards along with a new way to arrange dashboard order in a folder.



- Added a new “always_clean” option to the ldap configuration screen.

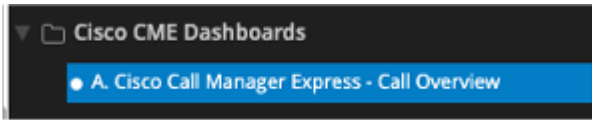


- Experimental Settings has been moved to “User Settings”.

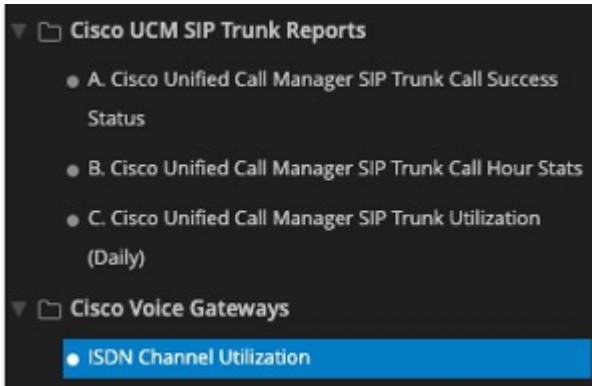


2.3.4. Dashboards

- New Cisco CME Dashboard. Requires Arbitrator Release SP23.



- New Cisco PRI and SIP Trunk Dashboards. Requires Arbitrator Release SP23.



- New DS9 Stats Dashboard. Requires DS9 SP7 which will be available at a later date.



- Update to Lxt - License Summary Dashboard. Enduser widget updated to reflect Arbitrator changes. Requires Arbitrator Release SP23.

 A screenshot of a dashboard widget titled 'Cisco CUCM License Summary'. Below the title is a table with the following data:

CUCM License Totals			
enduser_with_phones (Sum)	enduser_with_em (Sum)	standalone_phones (Sum)	total_license_count (Sum)
19	0	0	19

2.3.5. Misc

- Reporter backend switched to use kafka for better performance.
- Dashboard Driver enhancement added retries to be more resilient against high database usage.
- Various bug fixes.

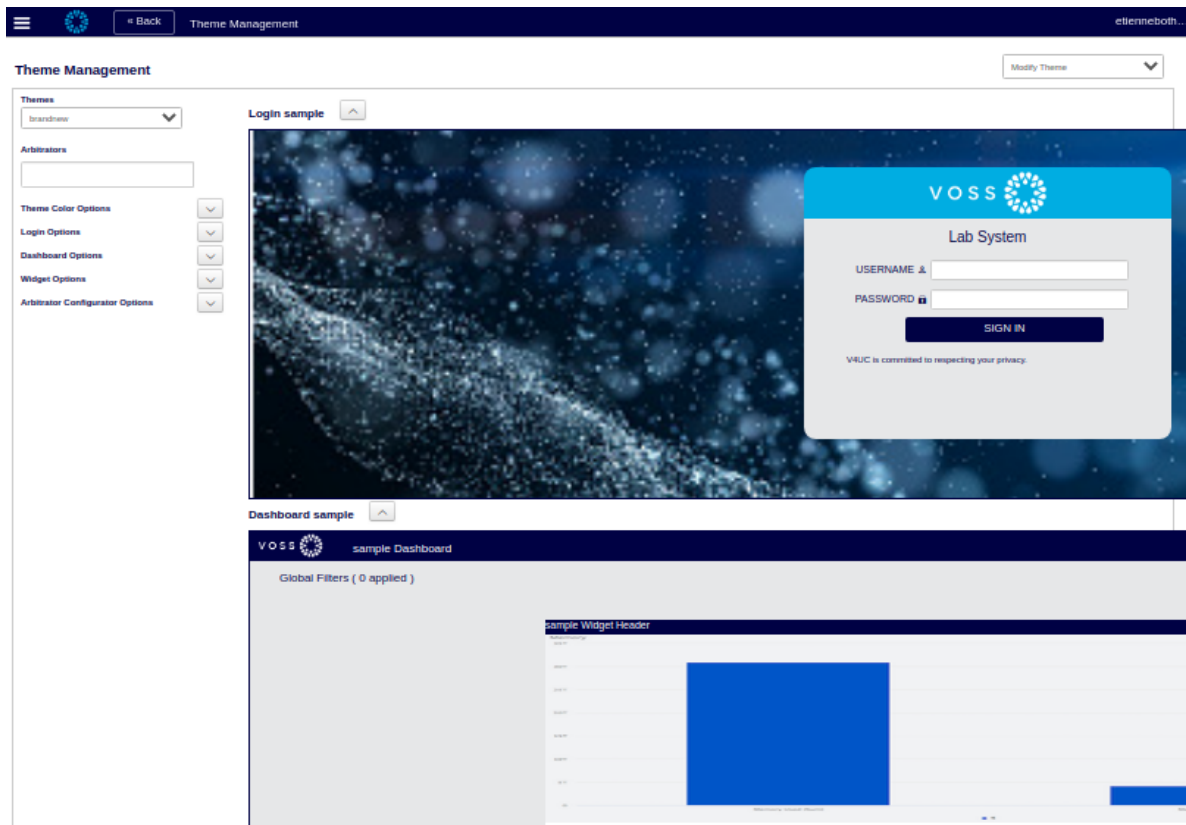
2.4. Release Notes for Dashboard and Reporting (SP63)

2.4.1. Security Updates

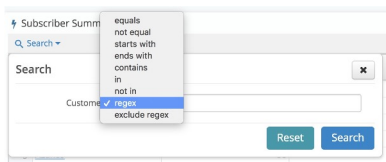
- CVE-2021-3156 - Upgraded `sudo` to resolve the vulnerability.
- Extra security measures enforced when using browser development tools.

2.4.2. UI Changes

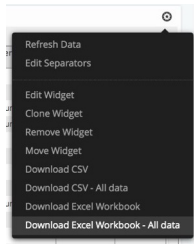
- New Feature - Ability to create new custom themes with the new Theme Management screen.



- Added support for Regex to the table “Search” capability.



- Enhancement. The “All data” option will take global filters into consideration.



- Enhancement. Special field groupings can be used as URL query parameters. This allows third party applications to drilldown into dashboards by simply passing the filter in the URL.

ID	Start Time	End Time	...
1	18:00:00-18:00:01	18:00:01-18:00:02	...
2	18:00:02-18:00:03	18:00:03-18:00:04	...
3	18:00:04-18:00:05	18:00:05-18:00:06	...
4	18:00:06-18:00:07	18:00:07-18:00:08	...
5	18:00:08-18:00:09	18:00:09-18:00:10	...
6	18:00:10-18:00:11	18:00:11-18:00:12	...
7	18:00:12-18:00:13	18:00:13-18:00:14	...
8	18:00:14-18:00:15	18:00:15-18:00:16	...
9	18:00:16-18:00:17	18:00:17-18:00:18	...
10	18:00:18-18:00:19	18:00:19-18:00:20	...
11	18:00:20-18:00:21	18:00:21-18:00:22	...

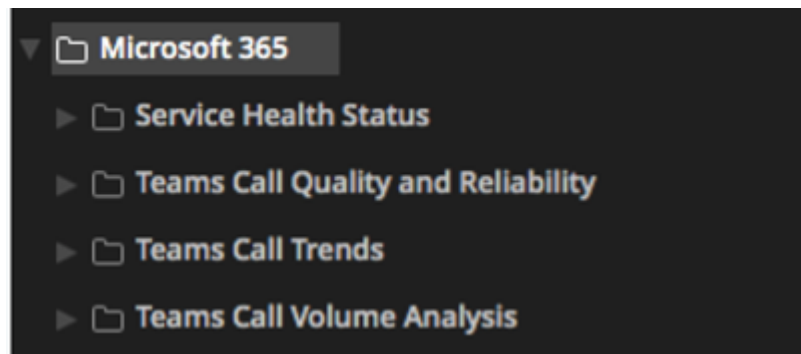
- User timeout no longer requires a browser refresh to login.
- Cell drilldown allowed when multiple fields are selected as drilldown fields.

2.4.3. Resource Definitions

- Added to the out-of-box build Cisco Call Manager Express support. Requires Arbitrator Release SP22.



- All new Microsoft Teams Dashboards are now in the out-of-box build. The LayerX Teams Collector is required to collect the data.



2.4.4. Misc

- Removed local LDAP restriction from auto sync dashboards based on Permission Groups feature. If enabled, system will auto sync dashboards based on Permission Groups regardless of LDAP authentication configuration.
- Added support for API Basic Authentication in the out-of-box build.
- Various bug fixes.

2.5. Release Notes for Dashboard and Reporting (SP62)

2.5.1. Security Updates

- Apache upgraded to 2.4.46
- Stricter file access to reports directories.
- Additional checks to only allow image files to be uploaded in “Rich Text” Widget Editor.
- TLS 1.0 and 1.1 deprecated in product.

2.5.2. User Interface

- Scheduled Reports can now be scheduled to output Excel workbooks (XLS) creating a new tab for each widget inside a single excel workbook file.
- Map chart now has options to change map background and continent border color.
- Table 2 charts:
 - There is a new sorting option for tree-table. `Default` sorting is the current behavior where the user dictates sorting by clicking on the individual columns. `Additional Sorting` uses the fields from the `Additional Sorting` line to determine the sort for the tree-table. Note, these options only affect sorting when `tree-table` is enabled.
 - New options are available to adjust column size. `Default` is the current behavior where columns are evenly auto adjusted based on browser size. `Fit contents` is a new options that will auto expand the column to fit the contents of the data. This will usually produce a horizontal scroll bar. `Custom` is also a new option that allows the user to specify the size of each column manually.
 - The renderer is updated to better support Kilobytes to Human Readable disk size. (M for Megs, G for Gigs). `Factor` can be manipulated if the base number is not in bytes. For example, the `df` command displays it's results in 1K blocks.
- New drilldown filtering option added. The current default behavior for drilldown filtering is the `IN` option. The `IN` option requires a perfect match in order for results to be returned. The `Regex` option will return data if the database contains the value that was selected.
- Added support for filtering and drilldown on empty values. Simply leave the filter value blank. For drilldown, user can click on an empty cell to trigger an empty filter drilldown.

2.5.3. Resource Definitions

- `cucm_headsetinventory`: New `cucm_headsetinventory` resource. Requires Arbitrator Release `sp21` and `axlGetHeadset_creds` probe.
- `arbitrator_ciscocdr` and `arbitrator_ciscomr`: Both `arbitrator_ciscocdr` and `arbitrator_ciscomr` resource updated to include new Cisco CMR Metric's Field.
- Zoom definitions updated, new Zoom QoS definitions and dashboards.

2.5.4. Miscellaneous

- New configuration screen for DS9. Requires DS9 Release SP5.

2.6. Release Notes for Dashboard and Reporting (SP61)

2.6.1. Security Update

- Apache configuration updated to enforce `SameSite=None`.

2.6.2. UI Features

- New Feature - Added new reports screen to show available scheduled reports.
- New Feature - Added new "Fixed placement columns" option for column and bar charts.
- New Feature - Added new "95th Percentile" option to be displayed in charts.
- New Feature - Added new "Local Time / UTC" time toggle that drives date range picker time reference.
- New Feature - Added support for hyperlinks in Rich Text widget.
- Enhancement - Removed "thunderbolt" drilldown animation.
- Enhancement - More unit formatting added to tooltips.
- Enhancement - Launch Third Party URL drill-down now supports dashboard start-time and end-time as valid parameters.
- Enhancement - Donut charts option added to allow aggregation by dimension.
- Enhancement - Performance update to "Manage Dashboards" so that less data is transferred during the use of this screen.
- Enhancement - Access Controls updated to add new "Toggle Datasource" permission.
- Enhancement - Access Controls updated to add new "Toggle UTC/Local Time" permission.

2.6.3. Dashboards and Resource Definitions Updates

- New “Lxt License Summary” - Dashboard that shows license information from all connected arbitrators and reporters. No configuration needed.
- New “Lxt - System Stats - Arbitrator” - Dashboard that shows system stats for all connected arbitrators. No configuration needed.
- New “Lxt - System Stats - Dashboard” - Dashboard that shows system stats for all connected dashboard servers. No configuration needed.
- New “Cisco TMS” dashboards using new Arbitrator probe collection (requires Arbitrator sp21).
- New - NBAR definitions and mappings support (requires DS9 sp4).
- Enhancement - Zoom Plans Usage definition added (requires Arbitrator sp21).

2.6.4. Miscellaneous

- Various bug fixes.

3. Correlation Arbitrator Server

3.1. Release Notes for Arbitrator Correlation 5 (SP25)

3.1.1. UI Changes

- Minor UI changes for the new year. New icons and new fonts used throughout UI.
- More color options added for arbitrator (Requires Dashboard SP66 Release).

3.1.2. WebEx

Webex API support added (Requires Dashboard SP66 Release for visualization).

3.1.3. Polycom Phones

Support added to probe polycom phones API (Requires Dashboard SP66 Release for visualization).

3.1.4. Cisco Enhancements

- Cisco RISphone scripts to support CUCM 14.
- Cisco SNMP scripts to improve performance.
- [EKB-10945] New definitions added for Cisco PRI/Cisco SIP SNMP probes.

See:

The Enrichments section of Arbitrator Probes to Monitor Cisco PRI and SIP Performance Monitoring in the Arbitrator Probes to Monitor Cisco PRI and SIP Performance Monitoring document.

3.1.5. Other Changes

- sysadmin account updated to support curl.
- Misc bug fixes.

3.2. Release Notes for Arbitrator Correlation 5 (SP23)

3.2.1. Security Updates

- sudo package updated to v1.9.7.
- curl package updated to v7.76.1.
- kafka package updated to v2.8.0.

3.2.2. New Features

- API support added to fetch and set product key.
- API support to add customer and site information.
- New config screen added to allow customer ndx file retention times. Default is 6 months.

Ndx

This screen can be used to manage Ndx files on the system.

max_ndx_file_size

The maximum size the ndx searchable file should be. Once the max size is hit, the ndx server will create a new ndx file.

max_searchable_days

The maximum number of days that should be searchable. Ndx files greater than this time will still live on the system but will not be searchable from the UI.

monthsKept

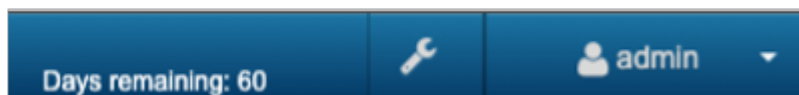
The maximum number of months to keep ndx archives around. Each archived ndx will take up disk space. Warning, increasing this number too large may require customer to also increase the hard disk size.

- New PRI and SIP Trunk probes for Cisco Voice Gateways. Please reference *Arbitrator Probes to Monitor Cisco PRI and SIP Performance Monitoring*.

The image displays two screenshots of the configuration interface. The top screenshot shows the 'Select Category' dropdown menu set to 'Cisco SNMP (Creds)' and the 'Select Script' dropdown menu set to 'getCiscoDialCtlPeerStatsSNMPTable'. The bottom screenshot shows the 'Select Category' dropdown menu set to 'Cisco AXL (Creds)' and the 'Select Script' dropdown menu set to 'axlCucmSipTrunk_creds.php'. Below the second dropdown is an optional text field labeled '[Optional] Cisco CDR CUCM Directory'.

3.2.3. Enhancements

- Arbitrator License remaining days will now be displayed in UI upon login.



- Increased ping probe performance by allowing for parallel pings across assets.
- Enduser cisco probe modified to get license usage counts.
- Removal of arbitrator_threat ndx process.
- Allow duplicate NAT IPs across all Assets.
- Various bug fixes.

3.3. Release Notes for Arbitrator Correlation 5 (SP22)

3.3.1. Security Updates

- CVE-2021-3156 - Upgraded `sudo` to resolve the vulnerability.
- Extra security measures enforced when using browser development tools.

3.3.2. New Features

- Added to the out-of-box build Cisco Call Manager Express FTP support. Dashboard definitions requires Dashboard Release SP63.
- New ping probe that will allow ping on a hostname: `icmp_echo_hostname`.

3.3.3. Enhancements

- User timeout no longer requires a browser refresh to login.
- Enhanced performance of ICMP probe on successful pings.
- The “All data” option will take global filters into consideration.
- Arbitrator themes can be created using Dashboard server. Requires Dashboard Release SP63.
- An increase in throughput for the correlation engine.
- Fixed API `/v2/configs/policy_filters` to work properly.
- Various bug fixes.

3.4. Release Notes for Arbitrator Correlation 5 (SP21)

3.4.1. Security Updates

- Apache upgraded to 2.4.46
- Apache config updated to include `SameSite=None`

3.4.2. New Features

- Added support for a new ftp server.
- Added a new restricted shell that allows customers to run various commands to help aid in debugging.
- New CUCM headset inventory axl probe added

3.4.3. Enhancements

- Several ZOOM monitoring enhancements: enhanced QoS support including min/max/median and MOS calculations, Plans Usage, recordings optimization, next page token changes, Zoom databackup/restore, and more.
- If unconfigured, this release will default Cisco CDR database data to 6 months. This can be changed in **Configuration > Archive Management > Archive > Cisco SQL**.

Cisco SQL

Archival for Cisco SQL data. This Archive group will backup all Cisco data in the database tables. This is the data that has already been processed by the system. There is nothing to edit here. The settings here are for information purposes only. The data here is grouped together by the Cisco Call Manager Ip Address. This allows for more granular control on which Call Manager data to import.

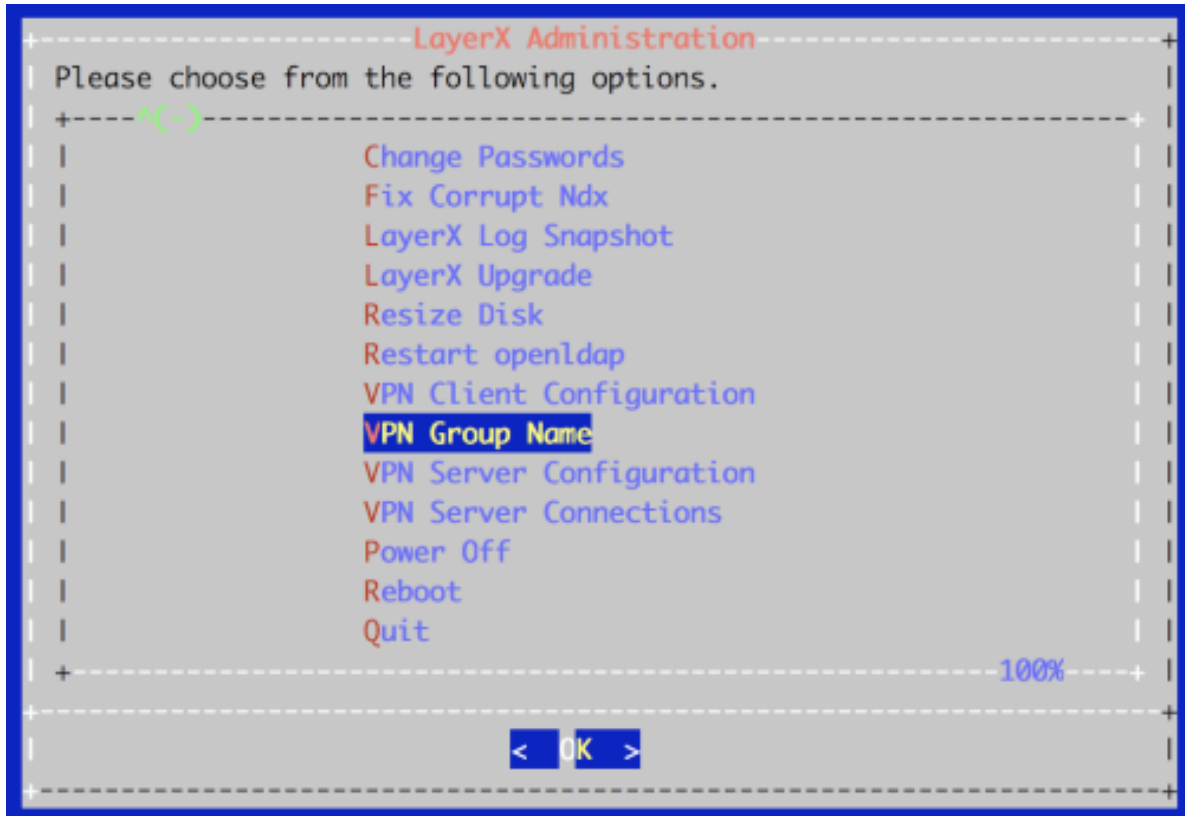
archive_interval
daily

method
local

destination
/chroot/scp/pub/kit_archive

monthsKept
6

- Cisco CMR parser updated to parse out the “Headset Metrics” fields. The Dashboard Release SP62 is needed to view the new metric fields. The resource is `arbitrator_ciscocdr`.
- Admin menu has new option “VPN group name” that allows customers to change SCDTSD VPN tunnel group name.



- CSV asset import now supports Customer and Site name.
- vpnSyslogAlert control script updated to include alert severity.
- Probe engine enhancements that ensure scripts timeout properly.
- Alert Reference IDs are limited to 32 characters.
- Cleanup of additional disk usage logs, reducing disk usage.
- Database upgrade.
- Various bug fixes.

3.5. Release Notes for Arbitrator Correlation 5 (SP20)

3.5.1. Highlights

1. New Feature: Zoom Analytics and Collection.
2. New Feature: Digital Experience Monitoring for Webex and Zoom.
3. New Feature: CUCM RIS probe that logs an event periodically showing phone status with Voss4UC customer location. (Voss Analytix required)
4. New Feature: Cisco CMR probe that logs an event periodically showing MOS quality by Voss4UC customer location. (Voss Analytix required)

5. New Feature: Zoom probe that logs an event periodically for each new entry in ZOOM_REPORT_TELEPHONE table.
6. New Feature: DB Aggregation feature added that enables custom database aggregations.
7. Improved Voss4UC integration. Added support for voss_device_cucm_line object. (Voss Analytix required)
8. Various bug fixes and security updates.

3.6. Release Notes for Arbitrator Correlation 5 (SP19)

- Added New Security Updates
 - Disable HTTP OPTIONS as Applicable
 - Removed ssl2
 - Upgraded Apache
 - Upgraded OpenLDAP
- Cisco UCCE
 - Added MIB Queries into the Platform
- Zenoss Cloud and Zenoss ZaaS updates
- Updated the Integration Scripts
- Improved Voss4UC integration
- Various DB Sync, Additional Fields and Filters
- Alerts restored Node ID
- Fixed SNMP* related issues
- Introducing Device REST API
- New Function to Allow Devices to be Populated Through the API
- Introducing Software Upgrade API
- Added a new “Menu” item to Allow Users to “GET” and Apply Upgrades
- Round robin probe execution to reduce database contention
- New Function as an Option Within the Probe Engine
- Increased RTCP throughput
- Added a New Calculated Field
- Increased ARB direct-connect count
- Allow SFTP archive backup
- Added SFTP in Addition to SCP
- Remove old archive files, per config setting
- Minor package upgrades
- Various additional security enhancements and bug fixes

4. DS9

4.1. Release Notes for DS9 (SP8)

Note: For VOSS Insights applications, this DS9 update is for existing DS9 customers

4.1.1. New features

- Configuration backup and restore

4.1.2. Enhancements

- Various bug fixes

4.2. Release Notes for DS9 5.0 (SP1)

Note: For VOSS Insights applications, this DS9 update is for new users of DS9.

First release.

4.3. Release Notes for DS9 (SP6)

Note: For VOSS Insights applications, this DS9 update has no new features that require an upgrade to it.

4.3.1. Security Updates

- CVE-2021-3156 - sudo upgraded

4.3.2. New features

- New enhancement added to allow the platform to load in AWS via an AMI
- Added alerting for various Flow summary data points
- Added support for Chronyd

4.3.3. Enhancements

- Added config and security enhancements to the API
- Added additional enhancements to sflow support
- Changed the Cisco CMR/CDR support to default as “off”
- Added menu support for SNMP v3 config
- Various bug fixes