

RayVentory Data Hub 12.5

12.5.5206.116 [Update 06]

Released on Jul 26, 2023

Improvements

Expanded Device Type Support for SCCM WMI Connector RR-4117

We have added support for more device types in the SCCM WMI Connector. This enhancement will allow for a broader range of devices to be managed and monitored through the RayVentory Data Hub.

New Filter for SCCM Software Data on Last Software Scan Date RR-4058

A new filter has been introduced for SCCM software data based on the Last Software Scan Date. This filter utilizes the newly added property LastSeenDays to provide more precise control over the data collected, ensuring that only relevant and recent software scan information is retrieved.

Exclude Empty Name and Version Data for SCCM Software RR-4059

We have implemented a new filter for SCCM software data that excludes the collection of records with empty name and version fields. This improvement helps in maintaining cleaner and more accurate data sets by eliminating unnecessary and incomplete entries.

12.5.5201.88 [Update 05]

Released on Jul 26, 2023

Improvements

 $\bullet \ \ \text{Improved performance of joining the data during the transformation task.} \ \ \text{\tiny RR-3805} \ \ \text{\tiny ZEN-21536} \ \ \ \text{\tiny ZEN-24156} \\$

Resolved Issues

• Fixed an issue, where the UI could freeze on the System Settings page. RR-3134

- Fixed an issue, where many irrelevant errors were logged in the console during the execution of agent-based transformation. RR-3739

 ZEN-23187
- Fixed an issue, where an incorrect interval was displayed for tasks, that were not assigned a scheduled execution. In this version, a placeholder will be shown for tasks, that are not scheduled. RR-3602 ZEN-21846
- Fixed an issue, where a message about disabled SSL certificate check would be printed in the log file each time a request is made and the SSL certificate check is disabled. From this version, the message is only shown once. RR-3728

Other changes

 The default logging level on Docker-based build is now warning. This means that by default only critical errors and warning will be logged, and the other messages (including info, debug or verbose texts) will be discarded. RR-3778

12.5.5195.87 [Update 04]

Released on Jun 26, 2023

Expanded Cloud Connectors Library and Features RR-3723

Cloud connectors have been updated (internal version 2023.1.1). In this release, we added the following new cloud connectors:

- BMC Discovery кот-233
- Coda кот-224
- Confluence KOT-246
- LeanIX SMP кот-268
- Tanium Asset кот-172
- USU Oracle Optimization KOT-181

Additionally, the following improvements have been implemented:

- Asana: Extended user and event data. кот-209
- Azure Compute Inventory: Adjusted default parameters. KOT-237
- Box: Correct spelling of parameters. KOT-278
- CrowdStrike Falcon: Upgraded deprecated device details endpoint. KOT-334
- Google Cloud Compute: Adjusted IP output, region and project separation. KOT-165
- IBM ILMT: new date parameter and dynamic date calculation. KOT-261
- Kubernetes: Add Environment information for Containers. KOT-210
- Okta: Added support for logs endpoint. кот-223
- Improved display names in several Microsoft, ServiceNow and VMware connectors. кот-222
- Microsoft Azure connectors now receive subscriptionId for all targets. KOT-212
- Microsoft Azure Active Directory now supports SignInActivity . KOT-269
- Microsoft Azure Compute Inventory: Parameter workspace id has been changed to a list. кот-221
- Microsoft Office 365: Request perios for AppUserDetail has been increased from 30 to 90 days. кот-240
- Proxmox: Server table has been renamed to Metric . KOT-241
- SAP BTP: Endpoint cloudCreditsDetails now returns all phases. KOT-242
- Zoom: Support for OAuth. кот-250

Furthermore, there are various internal stability, performance, and miscellaneous improvements. kot-247 kot-26 kot-201 kot-203 kot-86

Performance Optimizations of the Transform Engine

In this release, we improved the performance and resource consumption of the transformation process. Additionally, some data-related issues have been fixed:

- Joining on null values now returns results which are consistent with typical SQL joining. This also eliminates an issue with "ghost" entries, which could be produced in case of some specific combinations of null values in the joined tables. As a result, this version fixes an important regression introduced in the previous version (12.5 Update 3), where some joining and deduplication operations could lead to timeouts and exhaustion of free disk space. RR-3737 ZEN-23196
- The deduplication step now returns correct values for column-based deduplication if the benchmark column contains null values and either the Min or the Max strategy is used. RR-3640 ZEN-22707
- It is now possible to enrich a table with a fallback value only. Additionally, if the enriched column already contains a value, it is not going
 to be enriched anymore. This makes it possible to use enrichment steps as a placeholder and later easily add more table look-ups once
 they are available and needed. In previous versions, this behavior had to be simulated with a combination of specifially crafted map and
 enrichment steps. RR-3733 | ZEN-23270

Other Improvements

- Based on user feedback, we extended and/or clarified several sections of the product documentation, plus provided more background information for specific use cases. RR-1908 RR-3654 RR-3492 RR-3491 RR-3697 RVS-121 RVS-142 RVP-2083 RVP-2064 RVP-2068 RR-3246 RR-3604
 RVP-2022 RR-3501 RR-3727
- The selection of the default tenants has been improved (KeyCloak managed sign-in). There is now a new setting InitialTenant which can route new users upon creation to a specific tenant. RR-3699

Security Improvements

• Updated vulnerable libraries of transitive dependencies in Cloud connectors. KOT-338 RR-3723

Resolved Issues

- Fixed the creation of AD users under KeyCloak control. RR-3595 ZEN-22238
- Fixed possible timeouts when writing large chunks of data to the SQL Server database. RR-3769 RR-3640
- Added missing language texts for French and Russian languages. RR-3647
- Fixed rare issues, where a duplication of indexes would be reported when running complex transformations. RR-3725 ZEN-23193
- Fixed various issues in Cloud connectors: RR-3723
 - o Atlassian Cloud: Deserialization issue. кот-282
 - Atlassian Jira: Missing e-mail address. кот-281
 - Azure Active Directory: Missing parameter employee ID. кот-280
 - Azure Compute: Exception when fetching a missing resource. кот-185
 - o CrowdStrike Falcon: Error HTTP 400 Bad Request when fetching multiple pages. кот-290
 - GitHub: Issues with the parameter minutes_used_breakdown. кот-231
 - Qualys: Timeout issues. кот-276
 - SAP BTP: Fixed issues with ignoring of certificates. кот-242
 - SAP Concur: Resolved naming issues. кот-189
 - Sophos Central: Error HTTP 415 Unsupported Media Type. кот-308
 - o Tableau: Issues with refresh tokens. кот-289
 - VMware Vcenter: Fixed issues with ignoring of certificates. кот-275
 - ∘ VMware vROps: Fixed incorrect descriptions of the authentication parameters. кот-259

12.5.5182.85 [Update 03]

Released on Apr 27, 2023

Improvements

- CONNECTORS Cloud connectors (Kotlin) received a feature update to version 2022.4 patch 2. RR-3676
- REPORTING Adjusted the "Hardware overview" and added a navigation link, making it easier for users to access important information.

 RR-3659
- RAYVENTORY CATALOG Added the ability to retrieve the value of a custom attribute set on a product/publisher from the RayVentory Catalog.
 Additionally, there are several other minor changes and internal improvements. RR-3660 RR-3653
- REPORTING Changed the navigation links in the Software Asset Management, making it easier for users to access important information.

 RR-3668

Security Improvements

- Added a password check to ensure that users choose strong passwords that meet password security requirements. RR-3629 ZEN-21156
 - This feature can be activated by editing the property passwordFormat in the appsettings.json file.
- For a secure password requirement, including the minimum length, the presence of uppercase and lowercase letters, numbers, and special characters you can use the sample value: "^(?=.?[#?!@\$\%-])(?=.[0-9])(?=.[a-z])(?=.[A-Z])[a-zA-Z0-9\\#?!@\$\%-]{8,}\$".
- Please note, that values in JSON files may not contain unescaped backslash (\) or quotation marks (") characters; they have to be encoded as \\ (like in the above example) and \\" respectively.

Resolved Issues

- TRANSFORMATION Fixed issues with join statements not supporting null columns and wrong conversion to date for columns during the transformation process. RR-3640 ZEN-22707
- KEYCLOAK Added missing LogoutUrl placeholder in the configuration file. RR-3634
- REPORTING Fixed various issues in the default reports:
 - Fixed an issue with the "Software portfolio overview redundant software" task and dashboard, ensuring that all data is displayed accurately. RR-3649
 - Adjusted the detailed vulnerability report to ensure that it is displaying the correct information.
 RR-3607 ZEN-22076
- KEYCLOAK Fixed an issue, where emails were not being sent to users authenticated by external identity providers. RR-3636
- Fixed an error "The size (8000) given to the parameter 'Type' exceeds the maximum allowed (4000)" reported by MariaDB / MySQL tasks. RR-3608 ZEN-21753
- Fixed possible NullReferenceException when running the RayVentory Catalog task. RR-3631
- Fixed minor issues with localized texts. RR-3632 RR-3518
- Fixed an issue, where task description and task owner were incorrectly represented in the UI. This change fixes the previously
 introduced functional update in version 12.5 Update 3. RR-3633
- Added missing owner and description fields and generated migration for MySQL. RR-3638 ZEN-22666
- Fixed an issue, where certain task types were not showing a configuration UI if a multi-value (array) parameter was used by their authentication sections. This change affects several connectors, mostly AWS-related. RR-3639 ZEN-22683
- Improved the performance of OUTER JOIN queries in the transformation process. RR-3637 ZEN-22658
- Added missing relations to VMWare cluster names. RR-3650 ZEN-22370

12.5.5136.79 [Update 02]

Released on Mar 9, 2023

Feature Update of Cloud Connectors RR-3587

This version adds and improves many cloud connectors (internal version 2022.4.1).

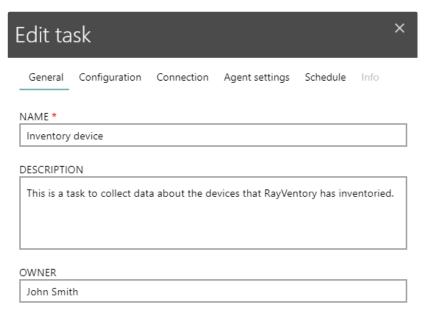
The following changes are included:

- Added the parameter account_list in the aws.ec2 and aws.rds connectors. KOT-126
- In the connectors aws.ec2, aws.rds and aws.s3, AWS China is now available. KOT-110
- JAMF Pro can now report the application usage and extension attributes. Additionally, the description and the in-app help texts have been updated. KOT-176 KOT-204 KOT-171
- The microsoft.azure.computeinventory connector can now fetch data from multiple workspaces. KOT-124
- It is possible to ignore certificate errors in the nutanix connector. KOT-162
- The kubernetes connector now reports information about worker or master node. KOT-202
- The microsoft.azure.compute connector now reports dedicated hosts and host groups in the virtual_machines table. KOT-177
- The performance of the Microsoft Azure Computer connector has been improved. KOT-188 KOT-193 KOT-200 205
- Various improvements in the Microsoft Office 365, Microsoft Azure AQL, and Microsoft Intune connectors. KOT-169 KOT-150 KOT-178
- Updated the connector description of the qualys connector. кот-187
- The SAP.BTP connector now reports month and year for the usage data. KOT-215
- Various improvements of the schema and descriptions of fields in the servicenow.licensedata and servicenow.table connectors.

 KOT-180 KOT-175

New Metadata Fields for Tasks RR-3459 RR-3460 ZEN-20947

Tasks now have two extra fields, that contain a textual description and the user who is the owner of the transformation.



Updated UI of the task editor.

Significant Performance Improvements of Transformations and SQL-Server Operations RR-3618 RR-3600

DATA TRANSFORMATION In this build we vastly improved the performance of the SQL-Server reader/writer and transformation components. With plenty of backend changes, RayVentory Data Hub can now achieve much better throughput, faster execution times, and less CPU and RAM

usage.

Generic changes in the SQL-Server related logic positively impact the transformation (both server- and agent-based) but also generic operations on the tenant database. As a result, inserting of data is much faster when using SQL-Server database driver.

New Transformation Type - Aggregation "First Not Empty" RR-3557 ZEN-20984

DATA TRANSFORMATION In previous versions, there were several ways of aggregating the data, one of them being "first not null" also known as "coalesce". This mode ensured, that the first value not being NULL is taken. Based on the feedback, we introduced another, similar mode, called "first not empty". In this mode, whitespace-only strings are also ignored, so that a chain of values NULL, <empty-string>, "A" gives the following results:

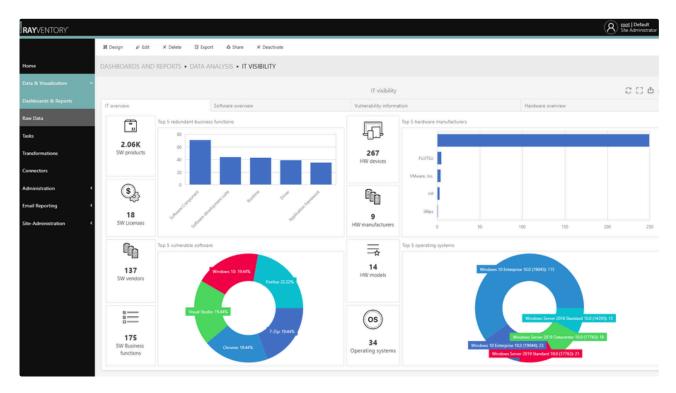
- First not null: <empty-string>
- First not empty: A



New option in the aggregation selector. This works for both join operations, as well as for column-based aggregations.

New Default Color Schema RR-3538

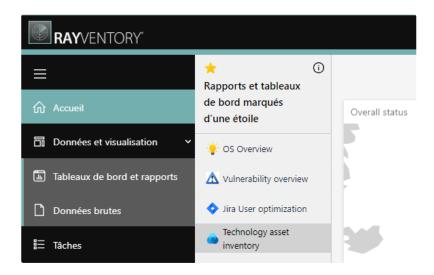
In this build, we changed the default color scheme to make bar and pie chart elements more distinguishable.



Other Improvements

- DATA TRANSFORMATION The name of the group column for the "group" step is now optional. When omitted, this extra column is not added anymore. In previous versions, the name was required and there was no way to opt-out from the extra count column. RR-3609 ZEN-20889
- DATA API In the Data Hub API, it is now possible to get the results in the JSON format (depending on the value of the Accept header).

 RR-3584
- PREVIEW In this build, we have added support for the French localization of the user interface. This is a preview feature. RR-3476



Security Improvements

- Updated library datatables.net to version 1.10.23+ to eliminate the potential software vulnerability CVE-2020-28458. RR-3466 ZEN-21063
- Resolved various issues with the delegation of authentication to the external identity provider. This change should have a visible change
 in terms of less flickering and screen changes, when the user gets authenticated. RR-3617 ZEN-21156

Resolved Issues

- DATA TRANSFORMATION Fixed issues with the LEFT and OUTER join logic of the join steps. RR-3560 ZEN-21502
- CATALOG Fixed an issue with the data being partially ignored by the RayVentory Catalog connector task. RR-3621 ZEN-22464
- Fixed wrong logging for tasks with timeout. RR-3462
- DATA TRANSFORMATION Transformation steps with aggregation of the type concat now properly return null when all values are null.

 Previously, an empty string was returned. RR-3585
- KEYCLOAK Fixed an issue with e-mail field getting an automated prefix preferred_username when using KeyCloak-based authentication. RR-3542
- The message shown when trying to delete a group with permissions has been reworded. RR-2511
- DATA TRANSFORMATION Fixed an issue where an incorrect source was created when switching between the table and step source.
 RR-3590 ZEN-22359 ZEN-21741
- DATA TRANSFORMATION Fixed minor UI issues with the default standard transformation. RR-3558
- DATA TRANSFORMATION Fixed an issue with macro handling, where in some cases the parameters could be wrongly resolved. RR-3606

 ZEN-21871
- KEYCLOAK Fixed issues where signing out directly from the home screen was not possible without triggering a navigation. RR-3457
 ZEN-21156
- Restored missing ITSM connector tasks and variables. RR-3597 RR-3596
- · Fixed various issues in cloud connectors:
 - Fixed wrong description in the Azure AD configuration. RR-3546

- The AWS. Athena and GCP. BigQuery connectors could not fetch the data. кот-152
- Various issues with parameter relations: hcl.bigfix.inventory, ibm.ilmt, microsoft.azuread, microsoft.azure.compute, microsoft.azure.computeinventory, microsoft.azure.consumption, microsoft.azure.loganalytics, microsoft.azure.sql, microsoft.graph.generic, microsoft.intune, microsoft.m365.signins, microsoft.office365, salesforce, salesforce.soql). KOT-195
- Wrong serialization of the e-mail field in the JAMF Pro connector. KOT-197
- Duplicate items in the microsoft.azure.compute connector in the vm_skus table. The table has duplicates though it should only
 have unique entries. KOT-168
- Inconsistent list and comma-separated parameters in the <code>aws.ec2</code>, <code>aws.rds</code>, <code>aws.s3</code> connectors. KOT-167
- Various issues in the Microsoft Azure Computer connector. кот-198 кот-208
- Wrong file handling and overriding resources in the aws.s3 connector. KOT-131
- o Wrong usage of format and limit parameters in the microsoft.graph.generic connector. кот-211
- Long runtime of the VMware AirWatch connector. кот-199

Known Issues

- Standard reports are available in the SQL-Server flavor only.
- The installer uses the SQL-Server as the default database type. In order to use MariaDB, skip the database creation step during the installation and adjust the configuration before starting the product for the first time. This does not affect the Docker-based installation, where the selection of the database type is determined by using a specific environment variable.
- The import of Excel files into container tasks does not work in combination with the MariaDB-based setup.
- Previous KeyCloak configurations will not be preserved during the migration process in the MSI-based installation. It is recommended to backup and restore your appsettings.json.
- New users, created when using an external identity provider KeyCloak receive suffix @datahub.com in their e-mail field, regardless of their actual e-mail. This is cosmetic issue; if required, the e-mail address can be changed by in the user profile menu. RR-3636

12.5.5086.74 [Update 01]

Released on Jan 26, 2023

Resolved Issues

- Fixed an issue with incomplete results saved to the tenant results database when using SQL Server database. RR-3529 ZEN-21404
- Fixed an issue with missing editor for standard de-duplication step with maxValue strategy. RR-3558
- Fixed an issue, where the priority of joined columns could be lost when saving changes in the Transformation editor. RR-3516 ZEN-21256
- Fixed conversion of date (InstallDate0) in ECM SQL SOFTWARE ARP task. RR-3558
- Various fixes in cloud connectors (internal version 2022.3.2): RR-3528
 - Fixed connection issues with Microsoft Azure Computer and Microsoft Azure SQL connectors. кот-153 кот-194
 - Fixed faulty parameter assertion on apiKey, username and password in the HCL BigFix connector. KOT-186
 - Fixed unknown fields parentName and parentId and turned the businessUnits to be optional in the Salesforce Marketing Cloud.

 KOT-153

Breaking Changes

• In SAP BTP connector, clientId and clientSecret are now required. KOT-166 RR-3528

Known Issues

• On Windows, when upgrading existing version of Data Hub server, previous settings like KeyCloak connection or database settings may be lost. It is recommended to back-up the file appsettings.json and restore it after the installation is finished.

12.5.5081.73 [RTM]

Released on Dec 29, 2022

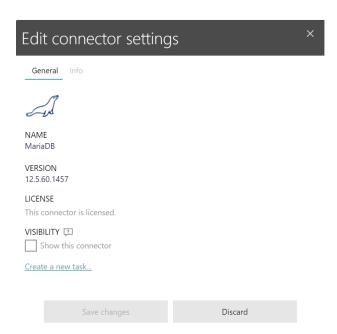
Support for MariaDB / MySQL Databases RR-2091 RR-3362 RR-1087 ZEN-17726

From this version on, Data Hub supports dual database types. The user can choose between SQL Server (standard setting) and MariaDB / MySQL. The selected database engine is used for both, product tables and tenant data. More information about switching to MariaDB database can be found in the product Installation Guide.



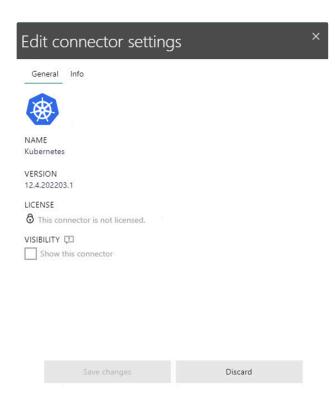
New Dedicated Connector to Query MySQL / MariaDB Databases RR-3471 ZEN-20972 SCON-217

What previously was only available as a generic ODBC query is now accessible as a standard connector, working similarly to the already available SQL Server connector. Both connectors can be used regardless of the used database engine.



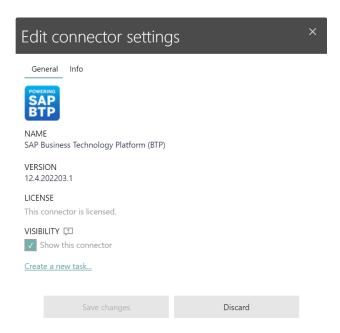
New Kubernetes Connector RR-3461

The new Kubernetes connector has been added.



New SAP Business Technology Platform (BTP) Connector and Connector Improvements RR-3461

The SAP Business Technology Platform (BTP) connector has been added. Additionally, there have been further improvements and fixes regarding the connectors.



Other Features and Improvements

- Improved KeyCloak integration. RR-3428 RR-3421
- The standard ETL script for Office 365 and Active Directory has been improved. RR-3468 ZEN-21074
- Improved fonts used by the Docker-based server. RR-3371

• AZURE COMPUTE Improved Azure Compute connector, which now can detect missing providers for subscription and uses an improved version of event logging. RR-3461

Security Improvements

In this build, all OSS libraries which were previously not signed are now digitally signed. RR-3257 RR-3448 ZEN-19870

Resolved Issues

- Fixed an issue where Data Hub could not retrieve the data if the KeyCloak API has been configured as private. RR-3465 ZEN-20848 ZEN-20892
- Fixed an issue with MSI installer creating unneeded resources. RR-3419 ZEN-20547
- Fixed an issue where the look-up values in an Enrich step were not shown when editing the step again. RR-3412 ZEN-20501 RR-3447
- Fixed an issue where after a failed job various files remained in the temp directory. RR-3423 ZEN-20526
- Fixed possible errors when executing merged transformations with SQL macros. RR-3434 ZEN-20457
- Fixed an issue with hidden OK and Cancel buttons in the data source selection. RR-3452 ZEN-20734
- Fixed an issue with the configuration of the maximum allowed timeout for SQL Commands in the Tenant settings. RR-3444 ZEN-20730
- Fixed an issue with unnecessary capitalization and white spaces in column names, displayed by the Raw Data viewer. RR-3409
- Fixed an issue with signing in after unlinking a user from LDAP. RR-3418
- Minor fixes in various reports and dashboards. RR-3375 RR-3375 RR-3376 RR-3398 RR-3416 RR-3364 RR-3424 RR-3421 RR-3431 RR-3438 RR-3445 RR-3446
- Fixed an issue with broken headers in the task view after a reload. RR-3410
- Fixed an issue where the select all checkbox on the transformation page only selected the first transformation instead of all transformations. RR-3422
- Fixed an issue where transformation tasks with the name "transformation" were not displayed correctly. RR-3440
- Fixed handling of NULL values in numeric aggregations (MAX, MIN, etc.) RR-2469
- Fixed typos in various places. RR-3437 RR-3456 RR-3379
- Fixed an issue where changing the language on the Home page caused an unnecessary toast notification. RR-3333
- JAMF PRO Fixed wrong data handling. RR-3461 KOT-163
- IBM ILMT Fixed wrong data handling. RR-3461 KOT-130
- MICROSOFT AZURE CONSUMPTION Fixed unescaped URLs returned by the connector. RR-3373 KOT-134
- SAP QUALTRICS Fixed HTTP 400 Bad Request exceptions. RR-3373 KOT-107
- GOOGLE CLOUD BIGQUERY Fixed wrong inclusion of parameters marked for deletion. RR-3373 KOT-143
- Internal performance and stability improvements of Cloud connectors. RR-3461 KOT-161 KOT-139 KOT-5 KOT-121 RR-3461 RR-3473

Known Issues

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