



## Release Notes

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The following features and enhancements are now available with the release of Bocada 23.2.05. This version is a major release and will be supported in accordance with the [Support Terms](#).

## New Features

### AWS Tags

Integrated AWS tags data to leverage native AWS data in Bocada reports, enhancing visibility and configurability of Bocada reports and automation.

### Cloud Storage: Azure & Alerting

Added storage utilization and trends reporting for Azure Storage Account to the existing multi-cloud storage reporting (alongside AWS S3 Buckets and Google Cloud Containers), providing visibility into usage across clouds, accounts, tenants, and subscriptions in a single view. The new multi-cloud reporting now also includes alerting when Storage Accounts, Buckets, or Containers reach configurable consumption or growth thresholds.

### Veeam Policy Auditing

Policy change records are now mined from Veeam servers and stored indefinitely. The results can be presented in a new report that provides easy sorting, grouping, and searching by auditors.

### CMDB Asset Inventory

Added the capability to load a CSV file directly into Bocada for immediate asset inventory protection assessment, bypassing a previously required configuration step (of leveraging the Microsoft Access Text ODBC driver).

## Enhancements

### AWS Resource Links

Improved the link to “Go to Resource” within backup failure reports for AWS backups to take users directly to the failed job or snapshot instead of stopping at the AWS resource.

### Data Collection Alerting

Further improved alerting on failed backup server communication with the option to alert only when data collection has failed consecutive attempts.

### Standard Users Report Scheduling

Added the option to allow standard users to schedule, export, or email their privately created reports.

### NetBackup Storage Lifecycle Policy (SLP)

Added a job message to convert Epoch time to a standard date and time format for SLP jobs with target name in format, e.g., targetname\_1683653847. Message example: *Original backup done at 1679615753 epoch time which is 2023-03-23 16:53:53 PDT.*

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# Version 23.1.04

April 12, 2023

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The following features and enhancements were made available with the release of Bocada 23.1.04. This version is a minor release and will be supported in accordance with the [Support Terms](#).

## New Features

### **Nutanix**

Added reporting on virtual machine infrastructure managed by Nutanix to automate asset reconciliation, identify unprotected assets, provide visibility into data protection, and monitor storage consumption.

### **Cloud Storage Alerting**

Added alerting for consumption of AWS S3 buckets and Google Cloud Containers. Alert parameters include total consumption and percent growth over time.

### **ServiceNow CMDB**

Added ServiceNow REST API as an option to collect CMDB inventory directly, providing an alternative to collecting through the ServiceNow ODBC driver. Added support for collecting data from multiple tables using dot-walking.

### **Spectrum Protect: MAGS Backup**

Improved reporting around file backups using MAGS backup for Spectrum Protect, including visibility of total files, files protected, and failed file backups for each filespace.

### **Veeam**

Added data collection support for Veeam Backup & Replication servers using a PostgreSQL database, mirroring new functionality added by Veeam in Version 12.

## Enhancements

### **Azure Cloud**

Further improved Azure SQL reporting to prepend the SQL instance to the database name.

### **Rubrik**

Improved data collection to support connection via tokens with MFA enabled.

### **Druva Phoenix**

Added support for data collection through a proxy.

### **Report Navigation**

Consolidated Alerting and Ticketing configuration and reporting into a single section to simplify discovery and workflow.

### **Bocada Zoning using CMDB Data**

Added ability to assign clients into multiple zones within the same Zone type from mined CMDB data.

## Resolved Issues

### **Rubrik**

Resolved backup job collection failure for clusters with a large number of inactive clients.

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# Version 23.1.03

March 8, 2023

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The following features and enhancements were made available with the release of Bocada 23.1.03. This version is a minor release and will be supported in accordance with the [Support Terms](#).

## New Features

### Google Cloud

Continued to build out reporting for Google Cloud to include backup of Google Kubernetes Engine (GKE). Added reporting on storage utilization from Google Buckets, including total utilization, utilization trends, and storage details across buckets, regions, and Google projects.

### AWS

Added reporting for AWS S3 buckets, including replication activity and total utilization, utilization trends, and storage details across buckets, regions, and AWS Accounts. Enhancements

### Zones View Redesigned

Further improved the presentation and management of Bocada Zones.

### CMDB Inventory from ServiceNow available via REST API

The ServiceNow REST API has been added as an option to collect CMDB inventory.

## Resolved Issues

### Veeam for AWS Restore Jobs

Restored items now display correctly in Veeam for AWS as well as in standard Veeam.

### Certain scheduled reports failing with *the given key is not present in the dictionary*

This is resolved in this release and available as a hotfix for Bocada 23.1.2.

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# Version 23.1.02

February 8, 2023

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The following features and enhancements were made available with the release of Bocada 23.1.02. This version is a major Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Google Cloud

Added monitoring and reporting for automatic Spanner Database "export backups" to S3 Buckets, providing visibility into long-term backup and archiving as well as point-in-time database recoverability.

### Direct Links to Resources with Backup Failures

Added a link to "Go to Resource" within backup failure reports. This will take users directly to the resource with the failure, automating the first critical remediation step. This feature is available for AWS, Azure, Druva Phoenix, Druva inSync, and Acronis Cyber Cloud. Additional products will be supported in future releases.

### Asset Inventory Reports

Completed the migration of all distinct Asset Inventory reports into four consolidated reports. In-report filters allow users to compare inventory data sets collected from AWS, Azure, Google Cloud, Microsoft SQL Server (DBs), VMware vCenter, and any "CMDB" or spreadsheet data set.

### Microsoft DPM

Re-structured DPM backup data so that DPM details can be reviewed in the Bytes Protected report. Bytes Protected is defined in Bocada as the client footprint, or size of the resource being protected. Data summaries include: Maximum (default), Average, and Most Recent.

### Pre-Built Schedule Configurations

Pre-configured schedule options are now available when scheduling data collection and report distribution, in addition to Bocada's already-available custom schedule configurations. These new pre-configured schedules let users easily select hourly, daily, or monthly cadences.

## Enhancements

### Commvault

Improved reporting to identify client footprint on storage and other billable data points like *Bytes Protected*.

### General Settings

Updated the General Settings view to let users more easily review and update Bocada product settings.

### Zones View Redesigned

Redesigned Zones view to improve presentation and management.

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# Version 22.3.13

January 11, 2023

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The following features and enhancements were made available with the release of Bocada 22.3.13. This version is a minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Google Cloud

Added incremental monitoring and reporting for Cloud SQL including Managed SQL Server, MySQL and PostgreSQL.

### Spectrum Protect

Added new reports for Spectrum Protect, including Maintenance activities, Admin Jobs, and other backup server health check items.

Reporting for Spectrum Protect (SP) Admin jobs includes:

- Migration: Offload primary copy data from Disk to tape to free up disk for next backup cycle.
- Protect Stg: Sync Container Storage pools between 2 servers.
- Tiering: Tiering data from on-prem stgpool to cloud stgpool (part of Protect Stg.)
- Backup Stg: Create secondary copy of data. Backup Primary storage pools to tape.
- Spectrum Protect DB Backup: Backup of SP Database.
- Expire Inventory: Remove pointers from SP database of expired data to free up media.
- Reclamation: Reuse tapes by emptying those with low utilization.

Other Health Check additions highlight Log Utilization, Scratch Tape availability, and Spectrum Protect Database Utilization.

## Enhancements

### Commvault

Agent information is now available in the Group Session field which can be used for identification in backup reports such as Job Activity or Backup Failures or can drive grouping in Job Trends and Consecutive Failures.

Additional support for Commvault V2 Indexing has also been added in this release.

### GAP Plugin

Improved import data forgiveness when job start times are missing seconds or hours from the datetime. In those cases job start time will be floored to 00 hours or 00 seconds dependent on the missing values.

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# Version 22.3.12

December 14, 2022

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The following features and enhancements were made available with the release of Bocada 22.3.12. This version is a minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Google Cloud: Spanner Backup and Restore

Added standard Spanner MSSQL and PostgreSQL database [backup and restore](#) reporting. Visibility into Spanner import, and export functionality is scheduled for the next Bocada release.

### Strikes Report

Added a report to highlight the last X-number of backup attempts when all the attempts failed or did not run. This report consolidates the identification of daily, weekly, and monthly failed backups under a single view.

## Enhancements

### Streamlined Bulk Server Integration

Enhanced the workflow when adding server integrations in bulk into Bocada using a pre-defined CSV list of backup servers and properties.

Also added filtering criteria to enable the inclusion of partially successful backups.

### Asset Inventory Reports

Migrated all AWS asset inventory reports to the Asset Inventory section, sunsetting the use of the AWS section. The reports impacted include four total reports. Three of these are the historical *Protected*, *Unprotected*, and *Non-Inventoried* assets reports, with additional data points and improved filtering. The fourth is a new *All Assets* report which provides a view into the entire inventory data set in a single place.

Future releases will also consolidate inventory data from AWS, Azure, VMware, and other sources into these four reports.

### UI Improvements

Modified Zones and Rule Groups reports to improve workflow and provide a more consistent experience throughout the product.

## Resolved Issues

### VMware Inventory Reports

Removed duplicative VM rows which appeared due to the introduction of vCenter Cluster reporting.



The following features and enhancements were made available with the release of Bocada 22.3.11. This version is a minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### VAST Plugin

Added reporting for VAST Storage to provide visibility into the utilization, trends, and reduction rates at the appliance and path levels.

### Scheduled Reports: Do Not Send When Empty

Added functionality to withhold distribution of reports when data is not present. This feature is particularly valuable when data within reports represents a problem, such as consecutive failures or unprotected assets. The presence of a report acts as an alert to trigger remediation while the absence of the report indicates no actions is needed.

### GAP Augmentation / Enhancement

The GAP (General Application Plugin), which enables data collection from backup products without a native Bocada, has been overhauled to collect more robust backup data sets from a wider variety of sources. The GAP can now interface with any ODBC data source including SQL and supports a wider array of data, including job messages. This functionality is now delivered through the Bocada installer and is maintained through standard Bocada upgrades and support mechanisms.

### Bytes Protected Report

This new report summarizes the “Bytes Protected” data for all successful backup jobs over a date range for selected backup clients. Bytes Protected is defined in Bocada as the client footprint, or size of the resource being protected. Data summaries include:

1. Maximum (default)
2. Average
3. Most Recent

### Data Protector API

Added support for data collection through the Data Protector API to improve security, configurability, and reliability.

## Enhancements

### Data Collection Network Resiliency

Improved data collection resiliency to overcome dropped network connections when committing data from a Bocada Data Collection Server (DCS) to the Bocada SQL database.

### UI improvements

New improved screens: Add and Edit Schedule, NBU Configuration, NBU clients, NBU SLP Configuration, NBU SLP, Add and Edit Server Group, Administration: Zones

## **Azure Cloud Reporting**

Improved reporting to increase visibility and data clarity in the following areas:

- The Azure "Computer Name" is now collected and appears under the Target field in Bocada reports, allowing for both the VM Name and the Computer Name to be displayed.
- Removed non-backup activity action (e.g., Configure Backup) previously mined as backup jobs.

## **Veeam**

Improved data collection and reporting to:

- Decrement some *Warning* level messages to be *Info* level messages.
- Populate the Bocada *Job Group* field for *In Progress* NAS backup jobs.

## **Backup Trends Details Report**

Added flexibility to hide all "Data Change" or "% Data Change" columns from the report.

## **Resolved Issues**

### **ServiceNow Ticket Auto-Closure**

Updated the ticket auto-closure to record the details of the successful backup job in the ticket.

### **Favorites Impacted by Long Running Reports**

Added capability to leave a long-running report by selecting a new report from the Favorites menu.

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# Version 22.3.10

October 12, 2022

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The following features and enhancements were made available with the release of Bocada 22.3.10. This version was a minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Remote Data Collection

Bocada's new remote data collection uses a REST API over an HTTPS connection to provide a more secure way to connect remote networks to the central Bocada system. This new functionality also includes features to automate the management of the Remote Data Collection systems from a single view, including pushing software updates and upgrades, and viewing the update history.

### Alerting Based on Consecutive Days of Failure

Consecutive days of failure or missed backup attempts can now be used as a criterion to trigger alerts and automated ticket creation. This new functionality leverages the Bocada consecutive failures report.

## Enhancements

### Custom SQL Improvements

Updated the actions and UI in the Custom SQL section to match the application's newer look and feel.

### Microsoft SQL Native Backup

Provided an option during data collection to discard Transaction Log backup attempts of .mdf files identified as invalid. These jobs previously presented as zero bytes with zero errors.

### Backup Server Properties

This new report displays the configuration settings used by Bocada to connect to, and collect data from, backup servers. This report is used to identify common connection properties across many different backup servers, like passwords, and perform bulk updates.

### Backup Servers

New server settings functionality allows users to add server notes of up to 1024 characters.

## Resolved Issues

### Veeam

Added In Progress jobs data capture functionality to improve troubleshooting.

### VCenter Collections

The vCenter plugin no longer collects general event data which was causing undesired data growth in the Bocada database.

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# Version 22.3.09

September 14, 2022

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The following features and enhancements were made available with the release of Bocada 22.3.09. This version was a Major Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **Favorite Reports**

Added a new mechanism to mark saved reports as “Favorite” so frequently accessed reports can be quickly and easily run from the new Favorites drop down menu bar. There is also a new "Favorites" view in the "Home" block on the left navigation menu that lists out favorited reports in tabular format.

## Enhancements

### **NetBackup**

Improved data collection and reporting for NetBackup version 10.0.1 and added support for version 10.1.

### **Veeam**

Various updates to improve the data reported from Veeam, including an additional data point that pulls the "Reason Failed" from the Veeam database.

### **ServiceNow: Description Field Limitations**

Added a limitation to prevent the Description field of a ServiceNow incident from growing beyond a manageable character size, especially key when Bocada updates existing tickets with subsequent backup failures. Bocada will note when the max number of failures recorded has been reached within the description.

### **Navigation**

Left navigation menu group will now auto-collapse when selecting a new group.

### **Price Management menu option hidden by default**

Price Management option is now hidden by default. This option can be enabled by changing settings.

## Resolved Issues

### **NetBackup**

Improved data collection to handle new cases from NetBackup version 10.0.0.1 and 10.1.

### **vCenter**

Released database space usage in vevent table.

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# Version 22.2.08

August 10, 2022

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The following features and enhancements are now available with the release of Bocada 22.2.08. This version was a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **Spectrum Protect Licensing Report**

Added a new Spectrum Protect Storage Report showing capacity usage in primary pools to anticipate upcoming IBM licensing costs for Spectrum Protect (TSM) deployments.

### **Intelligent Identification of Missed Backups**

Consecutive Failures and Job Trends Reports can now show when an expected backup did not run with a blue icon in the job status field. The new blue status icon highlights when a backup job didn't run on a day when it was expected based on the weekly backup history.

### **Automatic Zoning on Backup Server Time Zone**

Added capability to automatically create Bocada Zones, and assign backup clients to those Zones, based on a backup server's time zone, providing more automation and flexibility within report criteria.

### **Email Reports: Multiple Reports in a Single Attachment**

Added an option to receive multiple reports in a single HTML document attachment.

## Enhancements

### **Executive Summary**

Added new column options to the Executive Summary Report, including % Target Success as well as including/excluding partial successes as successful job runs.

### **Veeam**

Improved reports in Veeam for host backup levels *Synthetic Full* and *Copy*.

### **Druva Phoenix**

Improved visibility over SQL Servers protection status for those servers within multiple Availability Groups that have the same name, an addition possible with newly released Druva Phoenix API updates.

## Resolved Issues

### **Consecutive Failures Report**

Report Criteria Option "Show All Targets for Backup Clients with Consecutive Failures" now shows the intended results.

### **Scheduled Emails: Compressed Email Attachments**

Updated the default size to compress attachments from *Always* to *5 GB* and moved menu next to other email controls.

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# Version 22.2.07

July 13, 2022

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The following features and enhancements were made available with the release of Bocada 22.2.07. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Azure App Services

Added support for Azure App Services data collection and backup reporting.

### Azure Cosmos DB

Added support for Azure Cosmos DB data collection and backup reporting.

## Enhancements

### AWS Snapshots Report

- Improved the way snapshot aggregation works through the report criteria selector. This allows for better quantification of storage utilization by snapshots of unknown sizes across different groups like AWS Region, Service, Account, and Resource.
- Introduced manual snapshot grouping to improve report flexibility. Expired and orphaned snapshots can now be more easily identified for cleanup.

### Azure Cloud Backup

Added functionality to collect data from multiple subscriptions within an Azure Tenant. This streamlines data collection from Azure Cloud and gives enterprises the option to automatically scale Bocada as their Azure subscriptions grow.

### Druva Phoenix

Proactively adjusted our data collection protocols to handle recent changes Druva made to its public API endpoints. This adjustment supports new customer regions and a “new staggered deployment model.”

### Microsoft SQL Backup

Mapped transaction log backups to the Bocada Level of *Transaction Log* as opposed to its previous mapping to *Other*, allowing them to be used in report filtering criteria.

### NetWorker

Data Collection optimized for faster collections, especially improving speed for large NetWorker servers.

### Veeam improvements

Added multiple Veeam updates to enhance data precision and accuracy:

- Data on completed backup jobs that are part of running Veeam Job Sessions is now available. Previously these were reported as In Progress until the entire Veeam Job Session completed.
- Added option to automatically map warnings in Veeam to an error so that jobs with warnings can be reported as Partially Successful. Default behavior is that warnings are not reported as errors, enabling backups with warnings to be considered successful.

- Improved Job Error code recognition and categorization

#### **Rules: Improved Pattern Matching**

Improved the pattern matching capability in Rules so that backup clients can be assigned to Bocada zones based on multiple patterns within the same Rule using comma separation. This streamlines the number of rules required to deliver tailored reports for specific data owners and managers.

#### **Server Decommission**

Added an option at the Bocada Server level to disable manual data collection updates. This enables customers to keep all data for a decommissioned backup server in the Bocada history without unintentionally running a manual data collection and impacting reports and licensing.

#### **Ticketing/Incident Troubleshooting**

Added email alerting and reporting for cases where Bocada attempted to create an incident or ticket in an ITSM system but failed. The reporting is available as an additional column in the Job Activity and Backup Failures reports as well as the *Failed Incidents* report in the *Operations --> Advanced Config* section.

### **Resolved Issues**

#### **Consecutive Failures CSV Export**

Corrected a duplicative row issue appearing only on Consecutive Failures report CSV exports.

#### **Edit Servers**

Fixed the data collection run issues caused by editing a backup server's connection properties and choosing to perform data collection immediately after finishing the setup wizard.

#### **License Report**

Addressed an issue where the licensed units and total units consumed were not summed properly in the exported PDF or HTML report versions.

#### **Upgrade Robustness**

Fixed upgrade-related issues where corrupted registry entries would cause the upgrade or uninstall to stall or fail.

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## Version 22.2.06

June 8, 2022

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The following features and enhancements were made available with the release of Bocada 22.2.06. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

### Improvements

#### **Veeam improvements**

Several changes in Veeam Data Collection around Transaction Log backups, Error Code handling, backup level assignments, and backup job success/failure assessment.

#### **Redstor improvements**

Discover Tenants will now do zones creation and collection filter based on "Selected Tenants" in server properties.

### Resolved Issues

#### **Networker backup: Time out and performance issues**

Networker backup collection was failing with "Skipping job save job-NNNNNNNN: invalid start date" and time out errors. Also, made performance improvements



The following features and enhancements were made available with the release of Bocada 22.2.05. This version is a Major Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **Cherwell Incident Ticketing integration**

Added functionality to use criteria-based rules to automate incident ticket creation in Cherwell. Incident tickets are dynamically updated if multiple failures occur in the same object, eliminating redundant tickets.

### **New Asset Inventory reports**

Built four new reports in the Asset Inventory section to replace the existing three reports from the “CMDB” section. These reports highlight the same *Protected*, *Unprotected*, and *Non-Inventoried* assets with additional data points and improved filtering. The fourth report added is an *All Assets* report which provides a view into the entire inventory data set in a single place.

The current set of new reports is phase-1 of three phases, and future releases will also consolidate inventory data from AWS, Azure, VMware, and other sources into these four reports.

## Enhancements

### **Storage Alerting**

Added automated alerting to signal storage usage approaching a percentage of total capacity.

### **AWS Availability Zone**

Added AWS Availability Zone information to backup job region data when applicable to an AWS Service, e.g.: EC2 instances.

## Resolved Issues

This release resolves customer reported issues. The most critical fixes are documented below.

### **Saved Reports**

Enabled renaming of saved reports from the Saved Reports interface.

The following features and enhancements were made available with the release of Bocada 22.1.04. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **Dell PowerProtect Data Manager (PPDM)**

Added support for PPDM backup and restore activity reporting. This includes reporting on job activities as well as failure alerting & ticketing.

### **Druva Phoenix Oracle Backup Job Reporting**

Added reporting for Oracle database backups using *Phoenix Backup Store (PBS)* process.

### **Emailed Reports: Compression of Large Reports**

Added functionality to send reports as a single, compressed zip file when the size exceeds a user-configurable maximum size.

### **Emailed Reports: Multiple Report Attachments**

Added functionality to aggregate multiple scheduled reports and send all the reports in a single email as zipped or standalone attachments.

### **MSSQL Plugin: Bulk upload SQL Instances using CSV**

Automated adding multiple SQL Server instances to Bocada for data collection via CSV. This enables ingesting multiple SQL Servers with different properties (e.g.: server name, instance name, authentication method and user) into Bocada via one step.

## Enhancements

### **Druva Phoenix: SQL Availability Group (AG)**

Improved reporting and visibility by appending the primary server of the AG cluster to the Bocada Client name, which previously contained only the Availability Group Resource Name.

### **NetBackup Policy Data Collection: REST API Support**

Added REST API (including RBAC) support to report on the policy configurations.

### **Spectrum Protect: Discrete Database Backup Reporting**

Improved database-level reporting by splitting multi-database backups into individual targets, allowing for database specific auditing.

### **Ticketing: Added Criteria to Filter by Ticketing Instance**

Added criteria to select specific ticketing system instances in the *Backup Failures* and *Job Activity* reports.

**Commvault: Backup Media Destination Metrics**

Added data collection and reporting for *Media Destination*, *Media Server*, and *Media Library* for each successful Commvault backup.

**vCenter Plugin: Host Clusters Visibility**

Added data collection and reporting for VMware Host Clusters in the VMware Asset Inventory reports.

## Discontinued Features

**Assign Data Domain Function**

This function assigned backup policies to the Data Domain “Media Type” within Bocada for backup products which write backups to Data Domain as a standard file server (e.g.: TSM). Product feedback indicated that this feature is not used.

## Resolved Issues

This release resolves customer reported issues; the most critical fixes are documented below.

**Bocada Installer Fails with Error 0x80070666 (Case 10179)**

This failure occurred when a newer version of the Microsoft C++ redistributable already installed on the system. The updated behavior will be to skip installation of the C++ redistributable when a newer version is detected.

**Data Domain: Collection Shows as Successful Without Data Collected (d547)**

This issue occurred when Data Domain usernames or passwords were invalid or expired. The updated behavior in this release shows the data collection as failed with the appropriate messaging.

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# Version 22.1.03

March 10, 2022

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The following features and enhancements were made available with the release of Bocada 22.1.03. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **Automatic Zone Assignment Based on CMDB Asset Inventory**

Added automated zoning based on CMDB data for both Bocada and CMDB Asset Inventory client data.

### **Druva Phoenix Oracle Backup Job Reporting**

Added reporting for Druva Phoenix *Direct to Cloud* backup of Oracle databases.

### **Export Job Details**

Individual job detail data now exportable from the Job Trends, Consecutive Failures, Failure Trends, Job Activity, and Backup Failures reports after clicking on the green, yellow, or red icons.

### **Spectrum Protect Storage Pools Report**

New report created for Spectrum Protect (TSM) for Storage Pools related report including Tape Libraries and Stgpools.

## Enhancements

### **Bocada Upgrade Configuration**

Added functionality for the Bocada installer to change database or user configuration during an upgrade.

### **NetBackup Data Collection**

Added data collection support for NetBackup Linux servers through SSH using the root user and password instead of standard user with sudo.

## Resolved Issues

This release resolves customer reported issues; the most important ones are documented below.

### **Spectrum Protect Backup Storm Resolution**

Added more robust handling of some backup session storms. For example, when repeated attempts to communicate with the Spectrum Protect server are denied due to licensing issues.

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# Version 22.1.02

February 9, 2022

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The following features and enhancements were made available with the release of Bocada 22.1.02. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **AWS Backup Auto Zone Assignment**

Built upon existing AWS Role-based data collection to now enable auto-creation and assignment of AWS clients into Bocada zones

## Enhancements

### **Commvault**

Added data collection to mine the internal static hostname given to backup clients within Commvault.

### **Scheduled Report Management**

Updated the Run Report icon to a Refresh icon to differentiate between refreshing the data in the report and running the Scheduled Report Configuration.

### **Performance**

Improvements to report and data collection speeds.

### **Redstor**

Added capture & playback, improved collection performance, and improved reporting on some successful backup jobs.

### **Price List**

Updated the styling and functionality of the Price List configuration dialog.

## Resolved Issues

This release resolves customer reported issues; the most important ones are documented below.

### **Spectrum Protect**

Added more robust handling of client backup session storms for cases, an example being when repeated attempts to communicate with the Spectrum Protect server are denied due to licensing issues.

### **Data Protector**

Improved localization support for data collection.

### **Orphaned Clients Report**

Removed legacy report in favor of the Backup Clients report which provides a more configurable view of resources that may be orphaned.

The following features and enhancements were made available with the release of Bocada 22.1.01. This version was a Major Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Acronis Cyber Protect

Added support for Acronis Cyber Protect's backup and in progress jobs. This includes reporting on job activity and trends as well as failure alerting & ticketing.

### NetBackup Storage Configurations

Added REST API (including RBAC) support to report on the following storage configurations: disk pools, storage servers, storage units, and cloud-based storage support for Azure.

## Enhancements

### AWS Roles

Added a feature option to enable data collection against AWS spoke accounts when the Role used for authentication does not have permission to collect data against the AWS Hub account.

### Scheduled Report Management

Added report level ownership (Global Default & My Default) to Scheduled Report Management so customers can identify when default reports are scheduled for distribution.

### AD User validation

Added a flexible configuration to skip AD user verification via cross-domain checks to enable successful email distribution of reports.

### Data Collection

Provided a self-service option to remove obsolete Bocada DCS entries to help streamline diagnosis of data collection related problems.

## Resolved Issues

This release resolves customer reported issues; the most important ones are documented below.

### Spectrum Protect (TSM)

- Addressed a storage data collection failure with Error 545: Data source failed: Command is valid, but one or more parameters were not specified correctly ExecuteCommand failed: RC(3) EC(0).
- Fixed an issue with VM backups reporting with an incorrect VM Client name for Mode: DataMover backups

### Azure Cloud Recovery

Fixed the SQL Client name for transaction log backups which were sometimes shown as a GUID string.

**Azure Backup Server (DPM)**

Storage trends chart for DMP 2016 now shows valid data following a successful storage collection.

**Storage Servers Report**

Update report to remove duplicate entries and better focus on storage repository utilization.

The following features and enhancements were made available with the release of Bocada 21.3.12. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### ServiceNow Incident Auto-Closure

Added support for native integration with ServiceNow to automatically close opened incidents via rule-based actions. Allows customers to specify open and close states based on default or custom ServiceNow configurations.

### AWS IAM Role Authentication

Added support to collect data at scale from multiple AWS accounts through IAM Roles. The addition of IAM Role authentication to IAM user authentication allows customers with multiple, and dynamically created AWS accounts to report on all their data through a single Bocada configuration.

## Enhancements

### Veeam

Added support for *Veeam Backup for AWS* reporting for AWS EC2 instances protected by Veeam Backup & Replication.

### Commvault

- Enhanced the identification of unique errors and limited extraneous alerting and ticket generation by improving VM backup error recognition.

### General Reporting

- Added support to display dates in international formats in the Job Trends, Consecutive Failures, and Failure Trends reports exported or emailed as CSV.
- Improved default sorting behavior in dynamically grouped tabular reports.

## Resolved Issues

This release resolves several customer reported issues; the most important ones are documented below.

### Spectrum Protect (TSM)

- Fixed the incorrect reporting on backup targets as Restore jobs when they should show up as Backup jobs.

### N2WS

- Improved data collection to better capture and report on long running jobs



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# Version 21.3.11

November 10, 2021

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The following features and enhancements were made available with the release of Bocada 21.3.11. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## Enhancements

### Spectrum Protect (TSM)

- Improved performance & scalability of the plugin to better support large Spectrum Protect Server deployments.
- Enhanced data integrity by addressing failed VM backups reported as successes and incorrect byte counts reported in certain backup jobs.

### Rubrik RBS Agent Reporting

Enhanced the Rubrik plugin to report on RBS agent versions, supporting audits requiring file-level backup use-case scenarios.

### Commvault Disaster Recovery

Enhanced the Commvault plugin to include reporting on disaster recovery backups.

### Zone Creation & Assignment

Provided a mechanism to automate Zone creation and the assignment of backup clients to Zones based on a CSV, text, or a similar dataset.

### Protected Asset Reporting

Updated CMDB Protection analysis reports to exclude vCenter inventory and snapshots when assessing asset protection levels.

### Scheduled Report Management

Added a column to display time zone to easily correlate the scheduled reports with the correct time zones.

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# Version 21.3.10

October 13, 2021

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The following features and enhancements were made available with the release of Bocada 21.3.10. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **ServiceNow Customer Service Management (CSM)**

Added support for ServiceNow Customer Service Management which provides customers with a flexible configuration to create, monitor, and report on CSM cases within the Bocada UI. Also includes an automated journal to record all Bocada-created CSM cases.

### **Google Cloud Platform (GCP)**

Added support for Google Cloud Platform backup and storage. This includes reporting on job activities as well as failure alerting & ticketing.

## Enhancements

### **AWS Snapshot Groupings**

Enhanced the reporting criteria for the AWS Snapshots Report to allow aggregation by Snapshot, Clients, Servers, Regions and AWS Service Type (EC2, RDS, etc.).

### **Improved License Management**

Improved managing license workflows and functionality. UI enhancements also included.

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# Version 21.3.09

September 9, 2021

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The following features and enhancements were made available with the release of Bocada 21.3.09. This version is a Major Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **NetBackup RBAC Support**

Added support for NetBackup RBAC (Roll Based Access Control) to better support secure data collection via the NetBackup API. Bocada data collection can be configured for NetBackup 8.3 and later to leverage an API key rather than username and password for enhanced security protocols.

## Enhancements

### **Rubrik 6.0 Support**

Updated the Rubrik plugin to be compatible with newly released Rubrik 6.0.

### **Report Actions and Server Property Improvements**

Improved workflows and streamlined functionality around data collection configuration and report actions.

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# Version 21.2.8

August 11, 2021

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The following features and enhancements were made available with the release of Bocada 21.2.8. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Redstor

Added support for Redstor backup monitoring, including backup job activity reporting as well as backup-restore failure alerting. Additionally, automated tenant discovery to identify all MSP tenants supported by Redstor.

### Consecutive Failures Client Analysis

Enabled display of all targets for each client. This includes displaying lines for trend history of both successful and failed targets.

## Enhancements

### Custom SQL Reporting Anchored on Backup Day

Allow customers to create custom reports based on the backup day rather than the midnight following a backup.

### Server Property Configuration

Improved data collection configuration for storage & backup reporting on the following backup products: NetBackup, NetApp, Networker, Data Protector.

### Commvault Error Code Mapping

Improved categorization and identification of Commvault error codes by mapping codes in Bocada to what is reported in the Commvault UI console.

### Rubrik REST API Update

Upgraded Rubrik plugin to be compatible with version 5.2.x.

### NetBackup

Added support for NetBackup 9.1, featuring improved storage collection reporting.

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# Version 21.2.7

July 14, 2021

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The following features and enhancements were made available with the release of Bocada 21.2.7. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **Azure SQL Transaction Log Backups**

Added reporting for Azure SQL Transaction Log backups, providing visibility into backup performance metrics not currently visible via the Azure Portal.

### **ServiceNow Integration with OAuth 2.0**

Integration with ServiceNow REST APIs using OAuth 2.0 is now available to automate ticketing generation and management.

### **HPE StoreOnce Gen 4**

Added storage capacity and utilization reporting for Gen 4 versions of HPE StoreOnce, consolidating all StoreOnce reporting regardless of StoreOnce generation.

## Enhancements

### **Veeam Expiration and Retention**

Improved retention and expiration data for Veeam backups, replications, and backup copies, including long term retention using GFS.

### **Commvault Copy Job Recognition**

Improved copy job recognition to better distinguish and isolate copy jobs from other backup job types for reporting and ticketing.

### **Improved Job Trends Report Performance**

Improved performance of the Job Trends, Consecutive Failures, and Failure Trends reports which now run on the scale of 10x faster.

### **Improved Actions & Export Menus**

Consolidated Action and Export menus and improved the styling to provide a simpler, more intuitive workflow.

### **FIPS Compliance for PDF Reports Exports**

Built FIPS compliance into the PDF exported reports capability.

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# Version 21.2.6

June 09, 2021

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The following features and enhancements were made available with the release of Bocada 21.2.6. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### NetApp SnapCenter

Added reporting for NetApp SnapCenter backups of resources including database instances, Microsoft SQL Server availability groups, Oracle databases, Oracle RAC databases, Windows file systems, a group of custom applications, VMs, and datastores.

### Azure Active Directory

Added support for running Bocada and communicating with Azure SQL databases with Azure Active Directory (AAD) users.

## Enhancements

### Email Support for Mimecast or any SMTP using STARTTLS

Added checkbox option in Bocada email configuration settings to use STARTTLS email protocol. Note that STARTTLS is not compatible with FIPS. SSL or default connectivity should be used instead.

### Alerts & Ticketing

Updated alerting and ticketing to allow more precise, targeted criteria to trigger ticket generation. For example, tickets can now be generated based on specific error codes or messages in addition to existing criteria like consecutive failed attempts, groups or resources, or job types.

### Charting Export & Email

Updated the chart export and email functionality to ensure that charts preserve their improved look and feel when being distributed outside of the Bocada application.

### NetBackup

Added support for NetBackup 8.3.

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# Version 21.2.5

May 12, 2021

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The following features and enhancements were made available with the release of Bocada 21.2.5. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Azure SQL PaaS Database Reporting

Added reporting for backups of SQL PaaS Azure including Azure SQL Database and Azure Managed Instance Databases.

### Specialized Encryption

Added the ability to use a specific encryption key for all passwords stored within the Bocada database. The key used can be changed at any time, at which all passwords will be re-encrypted.

## Enhancements

### Acronis Cyber Cloud

Automated Acronis Cyber Cloud tenant discovery and creation within the Bocada Application. This new feature identifies all MSP tenants within the Acronis account and mirrors the existing tenant infrastructure within the Bocada application to streamline customer reporting.

### NetBackup - IPV6

Added support for data collection with NetBackup configured for IPV6.

### Executive Summary

*Target Days* column added that sums the number of targets that ran on each of the days over the time.

### Performance

Improved speed and performance throughout the Bocada application.

The following features and enhancements were made available with the release of Bocada 21.2.4. This version is a Major Release and will be supported in accordance with the [Support Terms](#).

## New Features

### **BMC Helix (Remedy) Ticketing Integration**

Added functionality to use criteria-based rules to automate Helix ticket creation. Tickets are dynamically updated if multiple failures occur in the same object, eliminating redundant tickets. The Incident History Report can also be used to identify ticket status and any changes made to tickets in Helix, including assignment, state, urgency, severity, resolution, and other attributes.

## Enhancements

### **NetBackup Auto Image Replication (AIR)**

Improved identification and categorization of NetBackup (AIR) jobs so replications can better be identified and tracked through the lifecycle of the data.

### **Veeam Service Provider Console (VSPC)**

Improved byte count details for each VM backup including VM size, bytes backed up as well as compression and deduplication statistics when data is available in VSPC for the restore points.

### **Veeam Backup & Replication**

Implemented various improvements to data and reporting, including:

- Added data to track Veeam backup retentions and expirations
- Updated the Veeam plugin to better support changes made in Veeam 11

### **Commvault Reporting**

Implemented various improvements to data and reporting, including:

- Added “Agent Type” to the Bocada job group field
- Added data to the Bocada job group field where previously it was blank, including Agent Type, policy, and other information about the backup job.
- Improved VM identification for Hypervisor backups
- Added information about SQL Transaction Log backups to the Bocada level field

### **Cohesity Reporting**

Implemented various improvements to data and reporting, including:

- Added support for collection against Cohesity nodes running in Azure Cloud
- Improved error mapping to specific error codes within Bocada so selective errors can be ignored or amplified
- Improved reporting of Cloud Archive jobs in the Bocada level field



The following features and enhancements were made available with the release of Bocada 21.1.3. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Zerto

Added Zerto replication data collection and reporting. This includes historical success and failure performance metrics.

### CMDB Ingest and Asset

Users can now query and ingest data from any CMDB inventory list or system with an ODBC connection, allowing for queries from simple CSV files to complex cloud ITSM systems. The inventoried data is then automatically compared against backup data in Bocada to highlight:

- Data for clients found in the CMDB but not reported in Bocada, exposing unprotected resources.
- Data for clients reported in Bocada but not found in the CMDB, exposing potential gaps or holes in the CMDB.
- Data for clients found in both sources, enabling management, and tracking of data protection across enterprise environments.

### AWS RDS

Added support for running the Bocada database on AWS RDS for SQL server, increasing cloud deployment flexibility.

### Azure SQL Managed Instance

Added support for running the Bocada database on Azure SQL managed instances, increasing cloud deployment flexibility.

## Enhancements

### Azure Backup

Updated the Azure Cloud Recovery plugin to enter and collect data from the Azure subscription level rather than the Recovery Services Vault. This simplifies configuring data collection for Azure Backup and enhances the inventory data set used to identify Azure unprotected assets.

Details about the changes and behavior after upgrade to Bocada 21.1.3 can be found in the Bocada Knowledge Base: <https://bocada-support.force.com/s/article/Q-A-for-Azure-Cloud-Recovery-plugin-change-on-Bocada-21-1-3-and-later-versions>

### Custom SQL Report Criteria

Added '\$' variable support to simplify using criteria with Custom SQL reports. For example, to include the Backup Server criterion in a Bocada Custom SQL report:

```
SELECT * FROM servers  
WHERE serverfqname in ($Servers)
```

### Backup Trends Details

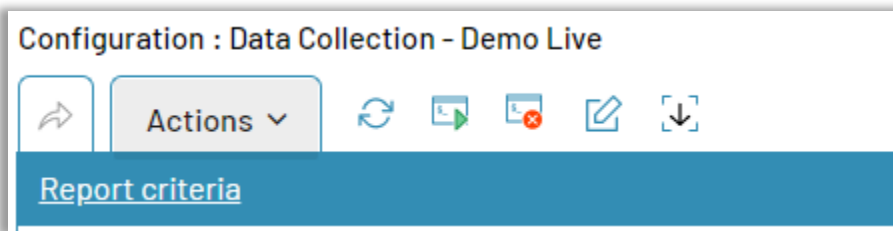
Added metrics of total change in data backed up over an entire date range to augment the change per time unit (day, week, or month).

### Storage Trends Details

Added summary of change in data usage over the entire report date range to augment the change per time unit (day, week, or month).

### User Experience Improvements

All Bocada reports now feature the action panel in the center of their Bocada dashboard. Further, all action icons are now fully updated.



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# Version 21.1.2

February 10, 2021

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The following features and enhancements were made available with the release of Bocada 21.1.2. This version is a Minor Release and will be supported in accordance with the [Support Terms](#).

## New Features

### ConnectWise Ticketing Integration

Added functionality to use criteria-based rules to automate ConnectWise ticket creation. Tickets are dynamically updated if multiple failures occur in the same object, eliminating redundant tickets. The Incident History Report can also be used to identify ticket status and any changes made to tickets in ConnectWise, including assignment, state, urgency, severity, resolution, and other attributes.

### Acronis Cyber Cloud

Added data collection and reporting for Acronis Cyber Cloud, a tool used by Managed Service Providers (MSPs) to manage backups for their end customers.

## Enhancements

### Backup Trends Details

Added change in data backed up by the day, week, or month depending on date grouping selected.

### Storage Trends Details

Added change in data usage by the day, week, or month depending on date grouping selected.

### Backup Clients Criteria

Improved performance to reduce loading time for report criteria and advanced criteria controls.

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# Version 21.1.1

January 13, 2021

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The following features and enhancements were made available with the release of Bocada 21.1.1. This version is a Major Release and will be supported in accordance with the [Support Terms](#).

## New Features

### Veeam Service Provider Console

Added data collection and reporting for Veeam Service Provider Console (VSPC), a tool used by Managed Service Providers (MSPs) to manage Veeam backups for their end customers. When adding a Veeam Service Provider Console to Bocada, an MSP can enable automated, centralized backup reporting and monitoring at the customer level, mirroring the existing tenant infrastructure.

### Jira Ticketing Integration

Added functionality to use criteria-based rules to automate Jira ticket creation. Incidents are dynamically updated if multiple failures occur in the same object, eliminating redundant tickets. The Incident History Report can also be used to identify ticket status and any changes made to tickets in Jira, including assignment, state, urgency, severity, resolution, and other attributes.

## Enhancements

### Improved Dynamic Charting

Improved charting look and feel, as well as usability, with increased interactivity. This release includes improved charting for not yet updated reports, including Storage Trends, all Data Domain reports (Utilization, Utilization Trends, and MTree Trends), all StoreOnce reports, and the Dashboard.

### Criteria Builder

Continued user experience improvements by rolling out the new criteria builder across the Job Trends, Consecutive Failure, and Failure Trends reports.

### Veeam Backup & Replication

Added capability to capture additional backup and restore job types such as Guest File Restores.

### Commvault

Added specific categorization for index restore jobs to allow for exclusion, if desired.

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# Technical Support

For technical support or if you would like a copy of our standard support agreement, please contact us.

**E-mail:** support@bocada.com

**Web:** <https://www.bocada.com/support/>

On the web you will find

- Online knowledge base
- Product documentation
- You can open a support ticket if you have been added to the portal

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