



Release Notes

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The following features and enhancements are now available with the release of Bocada 19.5:

New Features

AWS DynamoDB Snapshot Reporting

Added reporting for AWS manual and automated snapshot protection of DynamoDB tables. Also added reporting on the storage utilization of Dynamo DB table snapshots.

Installer Enhancements

When upgrading a Bocada DCS from version 19.4, uninstallation is not required, and the upgrade will proceed using persisted settings.

When upgrading the Application Web Server from version 19.4, the previously entered settings will persist for simple click-through.

User Experience Improvements

Bocada is making a large investment in its user experience throughout 2019. We have made substantive improvements to the following:

- A new Date-Range Picker in the Capacity Servers and Capacity Clients reports

Our goal is a simpler, more streamlined and intuitive interface using modern-day user interface styles and patterns. Look forward to continued upgrades and improvements from release to release.

Enhancements

Backup Activity Reports

Added job message error messaging to the Backup Activity and Failures report for export. This capability (enabled through the criteria) provides the final 2048 characters of job messages that are associated with errors. This feature provides data in an exported CSV file that can be fed to automation tools to find the root causes of failures.

NetWorker

- Updated to ignore job data for pseudo_saveset backup targets. The pseudo_saveset is a metadata anchor saveset used to register important parameters concerning the workflow of client jobs and impacts a variety of features includes the immediate cloning of individual savesets. It is now automatically generated at the start of the backup as an indicator of the list of savesets configured to start for the client.
- Updated RMAN target names to set to Saveset Name, an improvement over the previous “NetWorker Module for Databases and Applications” naming convention.
- Changed the byte count from zero to negative one when the byte count is indeterminable from the raw data source to signify *unknown* in Bocada reports.

The following features and enhancements are now available with the release of Bocada 19.4:

New Features

AWS Storage Reporting

Added storage reporting for AWS native snapshot protection. Currently supported AWS services, including EBS volume snapshots and RDS database instances across instance types and availability zones.

ServiceNow Integration for CMDB Management

Added functionality to query and compare data from ServiceNow CMDB and backup environment status configured with Bocada reporting. Included are views that 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 ServiceNow CMDB
- Data for clients found in both sources, enabling management and tracking of data protection across enterprise environments.

Installer Enhancements

Additions made to the installer to persist the settings used during installation. This feature will be leveraged in future releases to streamline the upgrade process and will be noticed during installation of the Bocada Application Server when upgrading from Bocada 19.3 to 19.4.

User Experience Improvements

Bocada is making a large investment in its user experience throughout 2019. In this release a few of those changes will be visible for the first time. We have made substantive improvements to the following:

- Criteria Panel for the Data Collection report

Our goal is a simpler, more streamlined and intuitive interface using modern day user interface styles and patterns. Look forward to continued upgrades and improvements from release to release.

Enhancements

Azure Cloud

Added internationalization support on date and time setting to support collection feature on data collection servers.

Spectrum Protect

- Improvements to failure recognition for errors: ANR0428W, ANR046I, and ANR0430I
- Improvements to RMAN backup failure recognition

The following features and enhancements are now available with the release of Bocada 19.3:

New Features

User Experience Improvements

Bocada is making a large investment in its user experience throughout 2019. In this release a few of those changes will be visible for the first time. We have made substantive improvements to the following:

- Data Collection “Run Manual Update” dialog
- “Add Annotations” dialog
- Criteria Panel for Backup Servers and Backup Server Groups reports

Our goal is a simpler, more streamlined and intuitive interface using modern day user interface styles and patterns. Look forward to continued upgrades and improvements from release to release.

AWS RDS Reporting

Added reporting for AWS native snapshot protection of RDS database instances across instance types and availability zones.

Annotations Export

Added functionality to export all annotations details as part of the CSV export for Backup Activity, Backup Failures, Restore Activity, and Restore Failure reports. This provides users a simpler way to share the annotations details to assist with auditing and general workflow management.

Enhancements

AWS EC2 (EBS)

- Changed schedule name in backup data for manually created snapshots from *n/a* to *Manual*
- Improvements to in-progress job collection accuracy
- Improvements to data collection messaging when invalid credentials entered

Azure Cloud

- Data collection improvements to account for potential latency with data visibility in Azure Cloud

NetWorker

Improved the accuracy of backup data mined by adding a collection method using jobquery.exe which comes with the NetWorker Extended Client installation. Previous collection using combined partial data sources (MMINFO and the GST database) was less reliable than the new method. This also presents a simpler setup without requiring any access grants to the GST database on the NetWorker server.

For assistance with leveraging this new method of collection, please contact [Bocada Support](#).

Rubrik

- Added reporting for Replication jobs
- Added reporting for Restore jobs
- Improved reporting for On Demand snapshots
- Improved reporting for Archive jobs previously reported as Full backups

Druva Phoenix

General Data collection improvements have been made to address various collection failures and test connection issues.

Spectrum Protect

- Improvements in byte count accuracy for backups with deduplication

Data Domain

Improved reporting for failed replication, including Sync-as-of time:

Successful Replications

Bocada Field	Data Domain Correlation
Job Start Date	Sync-as-of Time
Job Complete Date	Sync-as-of Time
Last Successful Backup Date	Job start date for most recent successful replication

Failed Replications

Bocada Field	Data Domain Correlation
Job Start Date	Default polling time (hourly)
Job Complete Date	Default polling time (hourly)
Last Successful Backup Date	Job start date for most recent successful replication

Bocada Installer

Like the user experience improvements in the application interface, Bocada is focused on improving the experience of our installer and upgrade process. During 19.2 and 19.3 we have laid groundwork to streamline and automate much of this process. Included in that is functionality visible to some users:

- Retention of the Windows Domain user used to run the Bocada Data Domain service.
- Automated installation of some required components, including any upgrades to the Microsoft SQL Native client used for connection to Microsoft SQL Server 2016 and newer.

The following features and enhancements are now available with the release of Bocada 19.2:

19.2 New Features

AWS EC2 Plugin

Added snapshot reporting for AWS native protection of EC2 instances leveraging Elastic Block Storage (EBS) volume resources.

Automated HTTPS Configuration

Added automated option to configuration the Bocada application to run as HTTPS. More information on certificate configuration can be found in the Bocada Installation Guide.

19.2 Enhancements

Rubrik Data Collection

We have improved data collection and backup job reporting to include:

- Microsoft SQL Server backups reporting
- NAS share backups reporting
- NAS share backup schedules reporting
- VMWare VM reporting improvements
- Backup retention data

Rubrik Capacity and Storage Reporting

Added reporting to provide insight into Rubrik capacity and storage growth.

Enhanced Automated Reporting

Added previous month, week, and day criteria to better automate reporting.

NetBackup Plugin

- Improved handling of SLP replications
- Improved support for data collection of NetBackup 8.1.2 Master servers

Data Domain Plugin

- Addition of last successful backup date, which is used to determine if the replication is in sync
- Improved data collection for Data Domain devices

Spectrum Protect

- Improvements in byte count accuracy for backups with deduplication

Spectrum Protect Plus

- Improvements to policy reporting

Improved accuracy for catalog backup client names

Version 19.1

January 9, 2019

Beginning in January 2019 we changed our monthly release numbering system to mirror the year and month in which it was released, hence the jump from 11.2 to 19.1.

The following features and enhancements are now available with the release of Bocada 19.1:

New Features

Rubrik

Added backup reporting for Rubrik's data protection and storage platform.

Cohesity Storage Domains Report

An additional report has been added to report on Cohesity Storage domains.

Enhancements

Data Domain

Support added for native Data Domain replication not running through DD Boost.

Functionality with TLS 1.0 and TLS 1.1 Disabled

Allows Bocada to install and function while TLS 1.0 is disabled on the Application and Data Collection servers.

In Progress Job Reporting

Improvements made to better support in progress job reporting for Spectrum Protect, Commvault, Veeam, among other products.

NetWorker

Improvements to policy reporting for RMAN and DB2 backups, including policy and schedule name for client-initiated backups.

Data Protector

Improvements around policy collection to better report on VEAgent backup policies, and enhancements to collection of long running backups.

Spectrum Protect

Improvements made to byte count reporting for SQL TDP nodes.

The following features and enhancements became available with the release of Bocada 11.2:

New Features

Druva Phoenix Reporting

Added backup reporting for Druva Phoenix Enterprise Cloud Backup platform in AWS, which provides data availability and governance for enterprise infrastructure with a unique cloud-first approach.

Spectrum Protect Plus Reporting

Added backup and storage reporting for IBM Spectrum Protect Plus, which provides data protection and recovery for virtual environments and databases and can be implemented as a standalone solution or integrated with traditional IBM Spectrum Protect environments.

Enhancements

In Progress Job Trends

- Improvements to visibility of running jobs
- Fixes for durations for pending, queued and running jobs and
- Fix for pending Commvault backups backup job displaying byte counts.

NetWorker

- Improvements around previously undefined client and asset level backups
- Performance improvements preventing timeouts in Bocada data collection
- Fixes for intermittent data collection failures.

The following features and enhancements became available with the release of Bocada 11.1:

New Features

Cohesity Reporting

Added reporting for Cohesity's data protection and storage platform.

Azure Cloud Reporting

Added data collection to report on the Azure IaaS and MARS implementations of Azure Backup.

Combined with Microsoft Data Protection Manager and Azure Backup Server (ABS) this rounds out the Bocada suite of reporting on Microsoft backups of and to the Azure cloud.

Enhancements

NetBackup: Policies and Schedules

Additions and refinements around NetBackup Policy and Schedule data collection including how schedules are affected with SLP providing policy admins a more in-depth view of the configurations of backups and schedules including how schedules are affected when utilizing storage entities utilizing SLP.

Additional Data is now collected with the NetBackup Policy collection using the NetBackup command *nbstl -L* and is available in the Bocada database table *dbo.policy_storage_lifecycle_policy*:

- Version
- Import_Priority
- Enable_Automatic_Remote_Import
- Source
- Operation_ID
- Operation_Index
- Window_Name
- Window_Close_Option
- Deferred_Deduplication

NetWorker: Policies and Schedules

Improved data collection around policy and schedule information with backup jobs enabling a fully robust Schedules, Retentions, and Targets report (SRT) to be created.

Veeam Backup

Added file Level Backup support for enhanced reporting of File Copy backups.

Bocada Rules Performance

The Bocada Rules now runs faster for large scale environments to prevent delays or timeouts when automatically assigning new clients to Zones.

The following features and enhancements became available with the release of Bocada 11.0:

New Features

RMAN Backup Reporting

Bocada 11 includes Reporting on backups done on Oracle databases through the RMAN application running on an Oracle server.

In Progress Backup Job Reporting

Bocada 11 now offers reporting on for actively running jobs in the following backup products:

1. Commvault
2. Data Protector
3. NetBackup
4. RMAN
5. Spectrum Protect
6. Veeam

Report Auditing

Report Auditing tracks which reports are run by which users, performance of functionality like Alerting, SLAs, and Reports run manually or scheduled for email and export.

Product Metrics

Metrics includes various data points that can be delivered to Bocada to focus future product improvements. Metrics data is not associated with backup server and client host names. Data from Product Metrics highlights how Bocada reports are used, what features are most important to customers, and which features and/or functionality might need improvement.

VM Protection Analysis

Bocada 11 includes our consolidated report suite to highlight protected versus unprotected VMware virtual machines within backup environments, now with adjusted licensing to discount the reported units.

Deduplication Backup and Occupancy Collection and Reporting for Spectrum Protect

Deduplication data is collected for IBM Spectrum Protect with regular Backup and Occupancy collections, so that Deduplication and compression byte fields will now be available for Spectrum Protect in Backup and Capacity reports.

Spectrum Protect: Filespace collection and reporting

Occupancy collections for IBM Spectrum Protect now includes protected Filespace data. To see the size of data protected on Client servers, see the new *Spectrum Protect Filespaces* tabular report in the Bocada Storage reporting section.

Enhancements

Annotations

Multiple clients can now be assigned to a single Annotation.

Server Groups

This version release adds Server Grouping functionality, enabling Servers to be filtered and searched in the *Backup Servers* and *Data Collection* report criteria.

Tabular Reporting Improvements

Bocada 11 includes a full update to the tabular reporting grid improving grouping, sorting, and other functionality within tabular reports streamlining data visibility.

Filter Criteria Improvements

Bocada 11 improves the performance of filter Criteria in the Backup Clients report:

- Improved performance when the filter box Criteria is used with wildcards.
- Addresses issues with data returned & better performance when using the Targets and Job Groups filters.
- Improved performance when using Server Criteria from the pop-up wizard picker.

Data Protector

- Fix for unknown Client and Target names in Replication Write jobs
- Fix for synthetic Full error mapping incorrect for error codes 318767686 and 318767690
- Fix for Codes 318768236 and 318768135 marked as “another backup is running” errors
- Errors no longer mapped to error code "BOC_N0000" which is reserved for non-errors
- General error-mapping improvements for unknown errors
- Fix for Index backup byte counts of level FULL when Total Size is [Not Applicable] in messages and 0 bytes in Commvault database

Data Domain

- Associating capacity to the Data Domain server as Client when the Client is “unknown”
- Each Backup by RMAN or DD Boost causing new clients to appear; As with “unknown” clients, these clients have been renamed to the Data Domain server
- Fix for backup collections failing due to Error 545: ArgumentOutOfRangeException
- Fix for missing Occupancy data points for some Data Domain servers

Data Protector

- Backup update support for Data Protector version 10.03
- Capture functionality for newer server command backup collection methods

NetBackup

- Fix for backup data collection timing out due to NetBackup Java console failure to get the Master server version
- Correction of level for Catalog backups where Incremental was reported as Full
- Byte count of Catalog staging jobs changed to not trigger failures for zero bytes / zero errors reporting criteria
- Fix for backup collections failing with Error 533: EXIT STATUS 133

NetWorker

- Fix for under-reporting on clone and backup jobs happening simultaneously
- Addition of timestamps to logging to help diagnose collection timeout issues

Spectrum Protect

- Fix for SQL TDP missing bytes for DEDUP Jobs
- Fix for SQL Agent daily jobs incorrectly assigned to weekly schedule
- Fix for Microsoft Hyper-V backup clients that are VMs not showing in reports
- Fix for policy collection sometimes getting multiple node rows for a snapshot-client
- Fix for some VM backups inaccurately displaying the Data Mover as the client and CLIENT_DEFINED as the target

Technical Support

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

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