BOCADA.

Reporting Guide

Contents

Introduction

This Reporting Guide is intended for users who report on their data protection environment using Bocada. Administrative functionality documentation can be found in the *Administration Guide*.

Modules

Bocada is divided into modules. These modules are found in the left column of the Bocada window, and each module can be expanded by selecting the module name. Under each module are that module's report views, as well as any sub-modules.
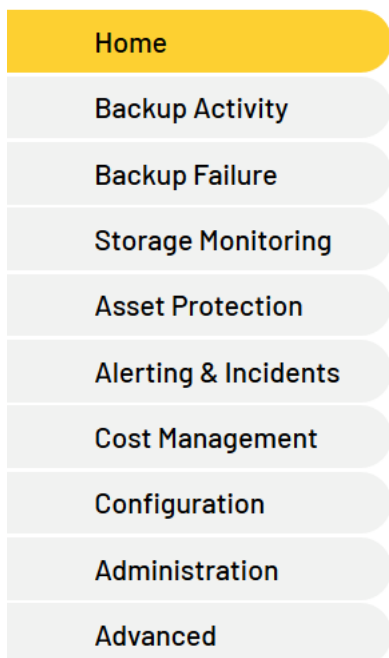
Below is a brief synopsis of the reports contained within each module; greater detail can be found in the Detailed Report Explanations section of this guide.

Home

The Home module provides immediate visibility into recent and long-term operation of the environment, with Job Trends analysis to determine inconsistencies in backup performance and opportunities for improvement. Use the Executive Summary report to get a view of the overall backup environment at a glance.
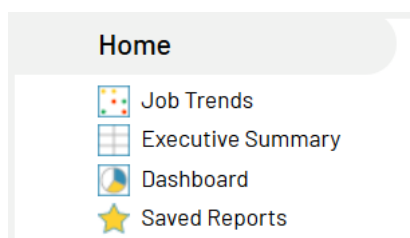
Job Trends
Job Trends displays the daily successful, failed, and partially successful backup jobs. This report can be grouped up to four levels and is grouped by Backup Server/Client/Target by default.

Executive Summary
Executive Summary rolls up a variety of backup statistics across you chosen time period, serving as an assessment of a backup environment for measures such as amount of data backed up, number of backup servers and clients in the environment, and percent of successful backup jobs.

Dashboard
Dashboard provides an overview of the backup environment by displaying up to four graphical reports in one window.

Saved Reports
Saved Reports is a central interface for and running and managing reports with previously saved criteria. Reports that are saved can also be accessed via the folder icon from each report. You can see your default report of each type, although you cannot edit that attribute here.

Backup Activity
The Backup Activity section includes the reports seen in this screenshot:
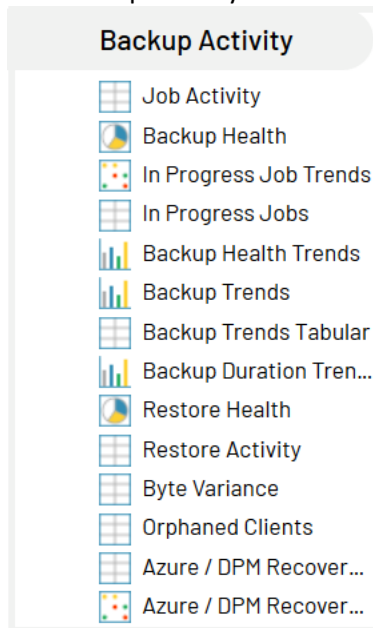
Job Activity
Job Activity lists backup attempts matching selected criteria over configurable periods of time.

Backup Health
Backup Health displays the percent of backups by status of successful, partially successful, and failed, in the form of a pie chart. Clicking on a section of the pie will take users to the related granular job details in Job Activity.

In Progress Job Trends
In-Progress Job Trends displays the next-future, currently-running, pending, successful, failed, and partially successful backup jobs. This report can be grouped up to four levels and is grouped by Backup Server/Client by default.

In Progress Jobs
In-Progress Jobs displays the currently-running, pending, and next-future jobs matching the selected criteria.

Backup Health Trends

Backup Health Trends displays the trend over time of backups that are successful, partially successful, and failed, in the form of a bar chart. Clicking on a section of a bar will take users to the related job details.

Backup Trends

Backup Trends displays the trend over time of bytes transferred for a variety of objects including backup servers, backup clients, and assets. Clicking on a bar will display the details contributing to the byte count for that period. See Backup Trends Details for a non-graphical version of this report

Backup Trends Details

Backup Trends Details displays the same data as in the Backup Trends graphical report: the trend over time of bytes transferred for a variety of objects including backup servers, backup clients, and assets.

Backup Duration Trends

Backup Duration Trends displays the backup jobs within each unit of time (defaults to Servers per Day) to show the length of time those jobs are running, in the form of a bar chart. Clicking on a section of the bar will take users to the related granular job details.

Restore Health

Restore Health shows the percent of restores that are successful, partially successful, and failed, in the form of a pie chart. Clicking on a section of the pie will take users to the related granular job details in Restore Activity.

Restore Activity

Restore Activity lists restore attempts matching selected criteria over configurable periods of time.

Orphaned Clients

Orphaned Clients is a depreciated feature.

Azure / DPM Recovery Point Summary

Azure / DPM Recovery Point Summary displays the status of Microsoft Azure and Data Protection Manager (DPM) recovery points including whether each recovery point is expired. This report can be grouped up to four levels and is grouped by Server/Client/Target by default.

Azure / DPM Recovery Point Status

Azure / DPM Recovery Point Status displays recovery point information for each target protected by MS Azure or DPM.

Backup Failure
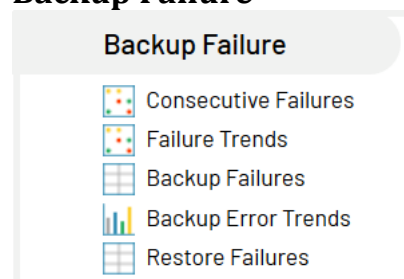
Backup Failure
- Consecutive Failures
- Failure Trends
- Backup Failures
- Backup Error Trends
- Restore Failures

Consecutive Failures

Consecutive Failures highlights the daily backup jobs for targets which have failed for a defined number of consecutive days since the most recent success. This report can be grouped up to four levels and is grouped by Server/Client/Target by default.

Failure Trends

A subset of the *Job Trends* report, *Failure Trends* displays failed (and partially failed) backup jobs as they trend over a period of time. While *Job Trends* displays all data specified in the criteria regardless of success, *Failure Trends* displays only data for which there were failures, thus filtering out rows that completely successful over that time. This report can be grouped up to four levels and is grouped by Backup Server/Client/Target by default.

The report will not show current backup day when using:
 * Show No Attempts as Failures + last X days or week/month-to-day

Backup Failures

Backup Failures is a subset of Job Activity that displays only failed and partially successful backups.

Backup Error Trends

Backup Error Trends displays the trend over time of backup error count for selected criteria and drill down functionality for a granular view of errors.

Restore Failures

Restore Failures is a subset of Restore Activity that displays only failed and partially successful restores.

Storage Monitoring

Note: Storage reporting is only available for products which can collect Storage data. See the Backup Product Plug-in Guides or Backup Product Version Support Matrix for details on which types of data collection are possible.
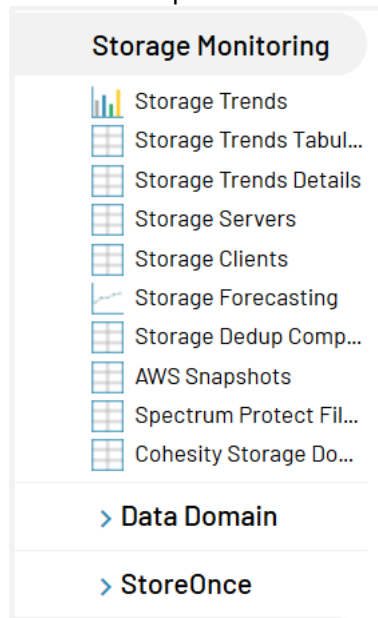
Storage Trends

Storage Trends displays the amount of unexpired data that is available for restore, trended over time. Clicking on a bar will display the details contributing to the byte count for that period.

Storage Trends Tabular

Tabular version of the data seen in the *Storage Trends* report.

Storage Servers

Storage Servers displays the Storage data by Media Library and Media Pool for each backup server.

Storage Clients

Storage Clients displays the Storage data by Media Library and Media Pool for each client server of each backup server.

Storage Dedup Compression

Capacity Dedup Compression provides a tabular report of the media capacity saved through compression and deduplication for each media pool.

AWS Snapshots

This report is documented in the Bocada AWS Backup Plugin Configuration Guide.

Spectrum Protect Filespaces

Spectrum Protect Filespaces displays how much data is protected on Spectrum Protect clients according to the Spectrum Protect Filespace table, by node, by filespace name, and by storage pool name.

Cohesity Storage Domains

Cohesity Storage Domains provides a tabular report of storage capacity and storage capacity usage for Cohesity's storage domains.

Data Domain Capacity

Data Domain Capacity is a line chart (2D or 3D) which displays the total Data Capacity, the Data Used Capacity, the Data Cleanable Capacity, and the Data Free Capacity of your Data Domains over time.

Storage Monitoring > Data Domain
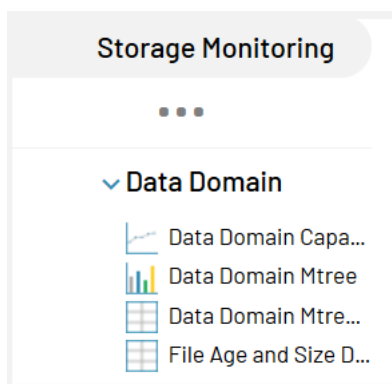
Data Domain dedicated reports are documented in the *Bocada Data Domain Plugin Configuration Guide*.

Storage Monitoring > Store Once

StoreOnce reporting is for this specific type of storage device.

Normalized Asset Inventory Reporting
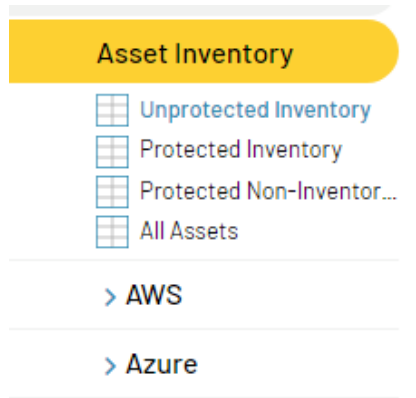
At the top of the Asset Inventory section of the left navigation panel there are four reports that represent normalized datasets of all Asset inventory accounted for by Bocada Reporting.

An "Asset" is typically a backup client-level item that may be protected. Some examples are various standalone computers / endpoints, servers of various types including as email or database servers, and VMs of various types, such as vCenter, Azure, or AWS machines.

The purpose of the top four reports in the Asset inventory is to pull together all "Assets" into four different sets of data.

Unprotected Inventory includes only Assets from an inventory system such as CMDB but for which no matching backup client is found in Bocada.

Protected Inventory includes Assets that are in an inventory system such as CMDB and also have a backup associated with the Asset in the Bocada backup datasets.

*Protected Non-Inventory* is any Asset in Bocada that is protected and not matched to an Asset in an inventory system.

All Assets is the list of all normalized Assets that has been collected by Bocada, either from an inventory source like CMDB or from a backup server.

Advanced > Policies

The Policy module enables all users to automatically view current policies and schedules, and periodically update users of any changes made to an existing policy so that they can review the impact of that policy change as it applies to overall backup success rates. The Policy Module enables all users to easily view information on numerous aspects of server and policy configuration, including schedules, storage, client details, and job and capacity trends. The Change Analysis feature automatically tracks changes in policies and shows the impact of any policy changes on backup performance and SLAs.

Policy reporting differs for each data protection application; Symantec NetBackup (NBU) and IBM Spectrum Protect (TSM) each have dedicated policy reports.

Note: Policy reporting is only available for products which can collect Policy data. See the Backup Product Plug-in Guides for details on which types of data collection are possible.
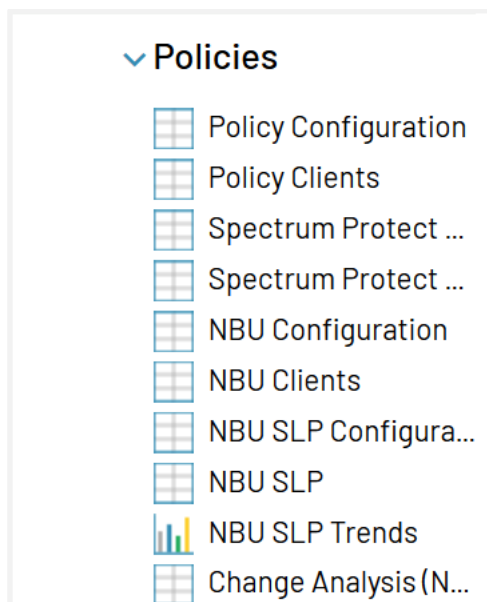
Policy Configuration

Policy Configuration displays backup configurations (policy) details for backup products supported with Bocada policy updates. Spectrum Protect and NBU policy information is contained in separate reports, and is not included in this report.

Policy Clients

Policy Clients displays backup clients assigned to policies for backup products supported with Bocada policy updates. Spectrum Protect and NBU policy information is contained in separate reports, and is not included in this report.

Spectrum Protect Configuration

Spectrum Protect Configuration displays details of Spectrum Protect policies.

Spectrum Protect Clients

Spectrum Protect Clients lists backup clients assigned to Spectrum Protect policies, along with related client details.

NBU Configuration

NBU Configuration displays details of the policy configurations of each NBU server, including what policies are configured, type of policy, storage devices associated, etc.
(Note: Policy Type includes an internal type identifier in parenthesis, not to be confused with quantity.)

NBU Clients

NBU Clients lists backup clients assigned to NBU policies along with related client details, whether a policy is active or inactive, if a client is assigned to more than one policy (i.e. is being backed up redundantly, the report will show one row for each policy the client is assigned), etc. Client versions and protected assets can also be viewed within this report.

NBU SLP Configuration

Specific to NBU, Storage Lifecycle Policies (SLP) reports provide a centralized view of vaulting and SLPs, including the ability to identify SLP-initiated backup jobs and their destination media to verify that backup copies were successful. *NBU SLP Configuration* displays a list of NBU SLPs along with a detail of each one when selected.

NBU SLP

NBU SLP displays the daily successful, failed or partially successful results of NBU lifecycle activities. This report is grouped to four levels and by Backup Server/Policy/Client/Schedule.

NBU SLP Trends

NBU SLP Trends shows the daily trend of successful, failed and partially successful results of NBU SLP Policies in the form of a bar chart. Clicking on a bar will display the *NBU SLP* report for the day clicked.

Change Analysis (NBU / Spectrum Protect)

Change Analysis highlights the changes to individual NBU or Spectrum Protect policies over time.

Advanced > SLA

The SLA Module enables users to easily track SLA performance and share results with internal or external customers via the web. Bocada enables configuration of SLA profiles based on the needs of your business. Bocada delivers proactive SLA impact reports, showing how SLAs will be affected by policy or infrastructure changes, and SLA trending reports, giving administrators different views of their SLAs by zones, applications, clients and more. The SLA metrics report reveals which SLAs are and are not being met, and why.
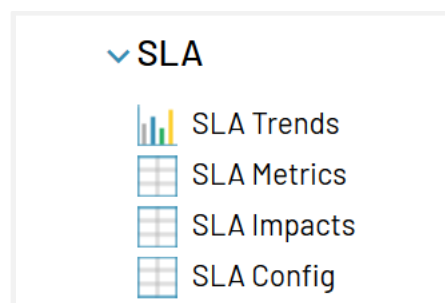
SLA Trends

SLA Trends provides a bar trend report of the SLA compliance over a designated period of time, showing what percentage of jobs associated with an SLA fall within each SLA status (Met SLA, Did Not Meet SLA, and No Backup Attempts Yet). Click on each bar to drill into the related SLA Metrics report.

SLA Metrics

SLA Metrics displays a report of jobs for all clients associated with an SLA (as defined in Manage SLAs), and how well those SLAs are being fulfilled, showing which SLAs are being met, which are not, and identifying where the problem is within the data protection infrastructure.

SLA Impacts

SLA Impacts provides an overview of how SLAs will affected be by policy or infrastructure changes.

SLA Config

SLA Config allows Administrators to establish and edit SLA Profiles. Once configured here, SLA Profiles may be assigned to clients, prior to running SLA Compliance Reports.

Configuration

Configuration views are for adding, managing and configuring the backup servers, clients, Scheduled Actions, etc. These functions are covered in the Bocada Administration Guide.

Administration

The Administration module is only available to Bocada Administrators and is documented in the *Bocada Administration Guide*.
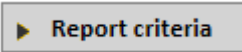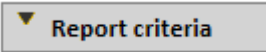
Report Features

Report Criteria

Each report can be edited to filter on specific criteria such as date range, client name, and backup application, etc. Criteria wizards allow for multiple criteria to be chosen to customize the report view.

All reports have a *Report Criteria* menu in the header of the report (except dashboard views). Choosing Report Criteria will expand a wizard/dialog screen that allows the user to choose from a broad selection of criteria for filtering the report view; select the triangle or *Report Criteria* to expand the criteria menu for each report.

Closed (default): ▶ **Report criteria**   Open: ▼ **Report criteria**

For example, here are the expanded report criteria in a *Health Check: Job Trends* report:

Note that many Criteria fields include both a text box to display current criteria and an Edit link to launch the Criteria Wizard:

Each tab within the wizard represents a criteria option; criteria appearing for each report are those relevant to that report type. They also only show related data to users based on the role and zoning permissions set in the Administration Users view.

Within the Criteria Wizard, it is possible to Search for criteria to include or exclude. The Search function allows use of the wildcard character * so that, in the above example, a filter of *Exec* here would include (or exclude) both Backup Exec and Backup Exec Legacy. Exclude filters take precedence over Include filters. For example, including *Backup* and excluding *Exec* would result in only NetBackup, above.

A comma-separated list of values may also be entered in the text box and used as criteria by clicking the *Apply csv* button at top right.

Criteria used in reports can be saved by using the Save Report feature. The reports will now show up under the Saved Reports heading on the left navigation panel.

Criteria Definitions:

Assets – The protected resource, also known as Targets, selections and sources. The criteria Assets lists all assets (backup targets) filtered by user role and zoned by client.

Backup Attempts – The criteria Backup Attempts is a multiple selection criteria. The options are:

- Best Attempt per Level – this option will evaluate all jobs per backup target and select the best outcome (most recent, most successful) attempt per asset per level per selected period (see Date Range, below) to display. The best attempt considers backup window, byte count, number of errors, and status. Note that this setting is per Level, therefore Full backup outcomes, for instance, are evaluated separately from Incremental backups for the same target.
- Last Attempt per Level – this option will only display the most recent backup attempt per asset per level per selected period.
- Consider all attempts – this option will consider all backup attempts per asset per selected period.

- Best Attempt per Backup Target Level – As with Best Attempt per Level, above, this option will evaluate all jobs per backup target and select the best outcome (most recent, most successful) attempt per asset per selected period, regardless of level. This option allows, for instance, a successful full backup for a target to override a previously failed partial backup.

Backup Clients – Usually a computer that is backed up by the backup server. All clients that meet the other criteria will be shown or you can filter the clients to include fewer in the report. Reports may also include text-boxes to filter the report by including or excluding Client names that match strings.

Backup Group Filter –This is used to select Job Group(s) matching a given string. Backup Group Filter supports wild cards (*,%).

Backup Servers – Machine that is responsible for scheduling and running the data protection software. Lists backup servers that are configured for data collection.

Backup Products – The name of data protection software as configured for data collection. Lists backup products that are supported by the report.

Backup Levels – The level of the backup. Currently, Bocada reports include: Archival, Differential, Duplicate, Full, Incremental, Other, Replication Read, Replication Write, Synthetic Full, and Unknown.

Bar Style – Bar Style is used for bar reports to determine bar appearance. This can be set to either 2D stacked, 2D side-by-side, or 3D stacked.

Client Filter – This is used to select client(s) matching a given string. Client Filter supports wild cards (*,%).

Data Center – Used to organize an aggregation of all the different objects needed to do work in a virtual infrastructure. Lists Data Centers collected from the Virtual Manager (vCenter).

Datastores – Representation of the physical storage of a data center. Lists data stores configured in the Virtual Manager and assigned to the Host servers.

Date Range – The Date Range criteria has the following options:
- **Current Backup day** – the current backup date displays data over the range determined by the administrative setting for the backup day.
- **Current week-to-day** – the current week to day starts on Monday at the beginning of the backup day.
- **Current month-to-day** - the current month to day starts on the 1st day of the month at the beginning of the backup day.
- **Last N Days** – Last N Days can be set to the number of days back from the time the report is run. The maximum number of days to go back is 45 days.
- **Last N Hours** – Last N hours can be set to the number of hours from the time the report is run. The maximum number of hours to go back is 72 hours.
- **Custom Date Range** – the custom date range allows users to select a range of dates. There is no limit to the number of dates that can be viewed.

- **Time Zone** – the time zone specified will determine when each day in the report begins or ends. Defaults to Backup Server Time, but may be changed if the report is needed in a different time zone than the one the server is in.

Error Sets – The criteria Error Sets pulls up a list of error definitions. These are an aggregation of data protection application error codes to one of sixteen normalized error sets (definitions). This criteria setting allows a user to determine if certain errors (example: File I/O error) should be ignored (green), normal, or a failure (red). By adjusting error sensitivity, reports can be created that reflect the organization's backup policies.

Each error definition can be set on a per-report or global basis. If a user sets error sensitivity for a specific report (for example, Backup Trends) and saves that report with a specific name, the error sensitivity settings from the named report are not applied to any new Backup Trends reports. A user can configure the default error sensitivity settings. These default settings determine the initial settings that are applied to newly-created reports.

Error Set Category	Example of Error Type
Aborted Backup Error (1)	Backup job was manually stopped by a user/operator.
Backup Configuration Error (2)	Installation or configuration of the backup product, either on the server or the client, resulted in an error (for example a missing client agent).
Backup File Busy Error (3)	File was in use during the backup job.
Backup File Corrupt Error (4)	Either a file changed while it was being saved to media (timestamp error), or the backup server detected a virus (infected file).
File I/O Error (5)	Server encountered an I/O error while reading a file (e.g. a client's hard disk crashed during the backup job).
Backup File Locked Error (6)	File was locked by another application during the backup job.
Backup File Permission Error (7)	Backup server had insufficient permissions to access a file (e.g. did not have read access).
Backup File Verification Error (8)	Files backup copy differed from its source (e.g. the file changed since backup).
Backup Group Error (9)	An error was recorded within this targets' Job Group.
Backup Media Unavailable Error (10)	No writable media was available for this backup job (for example, all tapes belonged to the wrong media pool).
Backup Media I/O Error (11)	Storage device encountered an error while writing the backup job to media (e.g. insufficient free storage space on disk or tape).
Backup Network Error (12)	Network connectivity error occurred during the backup job (e.g. a client was unavailable).
Backup Software Error (13)	Backup software failed to operate property (e.g. the server encountered an access violation).

Backup Time-out Error (14	Backup job was automatically terminated because it exceeded the expected amount of time (e.g. a stalled backup was timed out by the backup server).
Backup Unknown Error (15)	An error was recorded for this backup, but specific details are not available.
Backup Window Error (16)	Backup job was automatically terminated because it exceeded the backup window allotted for the job.
Backup X1 Error (17)	Supported product-specific error category.
Backup X2 Error (18)	Supported product-specific error category.
User Category 1 (19)	User-defined error category. For more information about how to set this error category, see the *Bocada Administrator Guide*.
User Category 2 (20)	User-defined error category.
User Category 3 (21)	User-defined error category.
User Category 4 (22)	User-defined error category.
User Category 5 (23)	User-defined error category.
User Category 6 (24)	User-defined error category.

Failure Emphasis – The criteria "Failure Emphasis" is specific to the Job Trends family of reports (Job Trends, Failure Trends, and Consecutive Failures); With this option selected, combining successful jobs with failed jobs will roll up to a failed client instead of partially successful client.

Group By – The "Group By" criteria allows grouping, and sub-grouping up to three levels, in the Trends family of reports, by the following:

Note: The *Group By* criteria will also detect clients grouped into any custom Zone Types, and permit grouping by those zones.
Note: Grouping by Media Type will display Disk, Tape, Cloud, and other media types such as Data Domain if those media types are supported for the backup product performing the backup in question. Data Domain is a supported media type for Avamar, Backup Exec, CommVault, Data Protector, NetBackup, Networker, Spectrum Protect (TSM), and Veeam.

Hosts – The physical computer on which the hypervisor is installed. The Hosts criteria provide a list of virtual manager hosts.

Include Error Codes – Selecting the Include Error Codes check box adds an additional column to reports. The column is then populated with the proprietary error codes from the backup product. Note: The criteria to Include Error Codes may affect performance of the reports being run with this check box enabled.

Include Ignored Items – The criteria to Include Ignored Items can be enabled to show clients, targets, or jobs of backup targets that have been selected to be ignored within the Backup Client properties wizard.

Job Group – The name of an aggregation group for backups, e.g. schedule group, policy, or backup group. The criteria Job Group lists job groups for related backup products. Reports may include text-boxes to filter the report by including or excluding strings which match Job Group names.

Management Classes – The criteria Management Classes is specific to Spectrum Protect (TSM) policy collections. Management Classes is a grouping class for such backup clients. The Management Classes criteria lists all Management Classes associated and collected from a Spectrum Protect server during a policy collection.

Only Display Default Management Class – The criteria "Only Display Default Management Class" is specific to Spectrum Protect (TSM) policy collections.

Policies – Shared rules and settings used for running backups that are applied to a set of clients assigned to that policy. List of the backup policies as mined during the policy data collection.
Note: Not every job is assigned to a particular policy, and using the Policy criteria to include jobs with named policies will not include such jobs. Likewise, using this criteria to exclude certain named Policies will not exclude activity not associated with any named policy.

Policy Domains – The criteria Policy Domain is specific to Spectrum Protect (TSM) policy collections. Used to determine shared rules and settings used for running backups that are applied to a set of clients assigned to that policy. The Policy Domain criteria lists all policy domains associated and collected from a Spectrum Protect server during a policy collection.

Policy Names – This criteria setting is specific to NetBackup policies. Used to determine shared rules and settings used for running backups that are applied to a set of clients assigned to that policy. The criteria Policy Name lists all NetBackup policies in the NetBackup Policy module reports.

Price Lists – A way of assigning prices to data backed up in the Bocada database. The criteria Price Lists will display all price lists created under the Administration Price List view.

Policy Types – A name given to a set of policies that have similar characteristics. This criteria setting lists policy type data for backup products where it's applicable.

Protection Groups – This criteria setting is available only for Microsoft Data Protection Manager (DPM) reports and backup servers, and provides a list of DPM protection groups as configured on the DPM backup server. DPM protection groups provide encapsulation for backups with similar characteristics.

Recovery Point Types – This defines the recovery point type for Microsoft Data Protection Manager (DPM) backups. The criteria are a list of Recovery Point types for DPM reports.

Schedules – The criteria Schedules includes or excludes those schedules that are collected during a policy update (in Policy reports) or the Bocada schedules used (for Operations reports such as Data Collection).

Server Groups – This criteria setting enables filtering reports by Server Groups.

Show Policies – This criteria setting enables a user to filter reports by inactive or active policies.

SLA Profiles – The SLA Profile criteria lists SLA Profiles that were created in the SLA Config view.

Status (Data Collection) – This criteria setting enables filtering of the data collection view by the following statuses: Successful, In Progress, Failed, Pending, Never Processed or Stopped.

Status (Job Status) – Job Status refers to the status of a backup as displayed by Bocada as a red, green or yellow circle. The status criteria enables filtering by backup status: Failure, Partial Success and Success. The default meaning of the colors for a job are:

Green Success: No errors.

Red Failure: Errors occurred and no bytes were transferred.

Yellow Partial: Some error was found, but bytes were backed up.

Storage Units – This NBU criteria provides a selection of Storage Units pulled from a NetBackup server during a policy data collection. NetBackup uses a Storage Unit as a label for physical storage.
Storage Groups – This NBU criteria provides a listing of Storage Groups pulled during a policy data collection. This is defined in NetBackup as groups of storage units.
Storage Lifecycle Policies – This NBU criteria is for policies that define the flow of backup data on NetBackup servers. The criteria "Storage Lifecycle Policies" lists storage lifecycle policies associated to a backup server.
Success for Zero Bytes/Errors – This criteria setting is optionally used to indicate whether to treat backups with zero bytes and zero errors as success or failure. This is set based on level (e.g. a full backup with zero bytes and zero errors might be a failure while a differential backup with zero bytes and zero errors would be treated as a success).
Targets – The protected resource, also known as Assets. Reports may include text-boxes to filter the report by including or excluding strings which match Target Names.
Time Zone – Seen under Date Range, the Time Zone criteria enables users to select the time zone in which the data should be displayed. This criteria setting can be set to a specific time zone or Backup Server Time. Backup Server Time represents the time zone of the backup server that performed the activity. Backups will be displayed in the time zone of the server (i.e. multiple time zones will be displayed in the report if the servers are in different time zones).
Update Types – The following types of data collection are supported by Bocada: Backup, Storage, or Policy. These criteria enables users to filter the data collection view by one or more of these collection types.
Virtual Managers – Central management for hypervisors. The criteria setting lists virtual managers added to the Bocada Application for virtual reporting.
VM Names – These are the virtual machine names that are assigned to data stores.
Volumes – Lists media volumes such as cloud, disk, or tapes.

Saving Criteria

Criteria used in reports can be saved by using the Save Criteria feature on the right menu, allowing you to rename and save a report, as well as control who may view the report and whether it is the default report shown:

Note: Selecting "Default report for Everyone" will automatically make the report available to Everyone. Restricting the accessibility to less than "Everyone" will disallow selecting "Default report for Everyone".

A report set as Default for Everyone will not override a user's personal default report of that type; Global defaults will apply to users without personal default reports.

The saved reports will then appear under the Saved Reports view of the Health Check module.

Action Panel Functions

Bocada provides the ability to perform specific actions, including editing and saving reports, setting up alert criteria, creating email schedules for communicating results to stakeholders, and creating annotations to keep track of actions taken to resolve problems. The Action panel is found on the right of the screen and can be expanded to a full menu or collapsed to only the action icons. Actions available are dependent on the report or view that has been selected.

Add – Applies to a variety of actions that can be performed depending on the report area the user is viewing. This action is used to add Zones, SLA Profiles, Backup Servers, Users, Price Lists and Alerts.

Add Alert – Opens the Alerting wizard to create an email alert or ticketing system email alert based on multiple criteria options (See Alerts). This action is available for Job Activity or Restore Activity reports.

Add Annotation – Opens a new dialog box that will allow Operators and Administrators to add detailed information regarding any job/client selected. The intent of annotation is to enable Operators and Administrators to keep a record of actions taken to resolve issues with any particular job or client; multiple annotations can be added to any job/client selected.   Annotations will be associated with the job/client in perpetuity and will be kept in a searchable knowledge base; the time, date and creator of the annotation are automatically tracked for reference. This action is available in the Health Check > Activity module.

Add Annotation Dialog Box

Annotation time windows may also be extended, so they can be displayed per backup client for a designated period.

 Add User – This action is available to Administrators only, and can be found in the Users view under the Administration Module. The action "Add User" allows adding additional users (Administrators, Operators or Standard Users)

 Add Zones – This action is available to Administrators only, under the Administrator Module, Zones view. This action will open a new dialog that allows Administrators to add a zone type or zone under a zone type for zoning of clients.

 Archive – This action will archive an SLA profile from the Manage SLAs view. This action essentially decommissions the SLA; however, the history of SLA configuration and results are maintained. This action is only available on the Manage SLAs view.

 Assign Clients – Similar to the Client Properties action (see below), however, Assign Clients is only related to specific reports. This action opens a wizard that allows Administrators and Operators to assign clients to SLA Profiles, zones, and price lists.

 Assign Data Domain – This action, which appears in the Operations > Backup Servers view, allows Administrators and Operators to assign & unassign policies as Data Domain, with the effective start date. See the *Bocada Administration Guide* for details.

 Cancel Updates – This action allows Administrators and Operators to manually cancel running, pending or in progress data collections. This action is only available in the Operations > Data Collection view.

 Copy Custom Report – This action copies customized SQL reports from the Saved Reports View. The copied report will copy the existing custom SQL settings to newly named reports.

Client Properties – This is a global action for assigning properties to any clients in the environment. This action is available in the Operations / Backup Clients setup area. This action will open a wizard that allows Administrators and Operators to assign clients to SLA profiles, zones, pricelists, or to be ignored or renamed.

Customize Dashboards – The action to customize the default dashboard allows Administrators to customize the reports and settings to be viewed in the dashboard. Administrators can also set up default dashboard views per user.

To customize the dashboard, click on the Customize icon in the right Action panel.
The Introduction tab allows users to choose up to four reports to be viewed in the summary dashboard:

Dashboard Customization Panel

The following tabs, from First Report to Fourth Report, allow Administrators to select the type of report that will be displayed. The administrator can select a standard report, select an existing saved report, or create a new report for the dashboard.

Dashboard Customization, Report Selection

To create a new report for the dashboard, select the type of report from the drop-down menu, and select the "Create a new report" option. The new report requires a unique title. Administrators can then select the criteria desired for a new report and save the report.

Dashboard Customization: Criteria Selection

The Finish tab of the Customize wizard allows Administrators to set which users can see the customized dashboard. The options are:

        Apply changes to my dashboard

        Apply changes to the dashboard of selected roles below:

- Administrator
- Operator
- Standard User

Dashboard Customization: Choose User Access

Note: For additional information on Customizing Dashboards, please reference the *Bocada Administrator Guide*.

Delete –Allows for deleting of servers, schedules, zones, pricelists, saved reports, etc.

Delete Custom Report – Deletes customized SQL reports to be deleted from the Saved Reports View.

Edit –This action allows for editing of properties of server, schedules, SLA profiles, etc.
Note: The edit icon is only available for single editing. If multiple items or no item is selected the icon will be greyed out.

Edit Custom Report – This action allows Administrators to edit reports created with custom SQL properties. This action will open a new dialog for editing of the SQL. This action is only available in the Custom SQL Templates view.

Export – Exports reports as HTML, PDF, CSV, or TXT depending on the type of report that is being viewed.

New Custom Report – Administrators may create a new report with custom SQL properties using this action. This action will open a new dialog area for adding custom SQL. This action is only available in the Custom SQL Templates view. Please see the *Custom SQL Reporting* section of the *Administration Guide* for further details.

Open – Opens a dialog area to view and select previously saved reports. Only saved reports of the type currently being viewed will be listed.

Pause/Resume – With this action, found under Operations: Schedules, all scheduled actions may be temporarily suspended or resumed.

Refresh – This action will refresh the current view. The refresh will use the last **saved** criteria of the reports.

Remove Users – With this action, an Administrator may remove Operators and Standard users. This action is only available from the Administration Module.

Run Report - Runs the report with the current specified criteria settings chosen in Report Criteria.

Run Updates – Allows Administrators and Operators to manually run data collections against selected backup servers and backup types. This action is only available in the Operation Module, Data Collection.

Save Criteria – Opens a dialog to save a new report or save the same report with new criteria set in the Edit Report Criteria.

Schedule Report – Opens a dialog to create a Scheduled Report configuration to associate a Report with a Schedule, or use an existing configuration for this report:

Schedule Email / Export

○ New configuration
○ Existing configuration   Please select an existing configuration.   ▾

Configuration Properties

Configuration Name: [   ]

Report Name: Job Trends   ▾

Associated Schedule: Unscheduled   ▾   [Create New Schedule]

File Types: ☑ HTM (Attached) ☐ Inline HTML (Email only) ☐ PDF ☐ CSV ☐ TXT

Email Configuration

☐ Enable email   ☐ Include report URL in email

E-mail Recipients: [   ]

Export Configuration

☐ Enable UNC network path export

UNC Export Location: ○ Default UNC Export Path
                      ○ Custom UNC Export Path
                      [Default   ]

UNC Export Options: ○ Overwrite existing file
                      ○ Append date to filename
                      ○ Append date and time to filename

[Test Export]

[Finish] [Cancel]

📧 **Send by Email** – Sends an exported report view to any email address.

Email Reports

Please enter the information you would like to include in this message. The email addresses must be separated using a comma or semicolon.

To: [   ]

Subject: [   ]

Message: [   ]

File Types: ☑ PDF ☐ CSV ☐ TXT

[OK] [Cancel]

Send Email Configuration Dialog

⚠ **SLA Impacts** – Opens a list of SLAs that may be impacted by job results.

🔍 **View Annotations** – Launches a dialog to view and search on existing annotations.
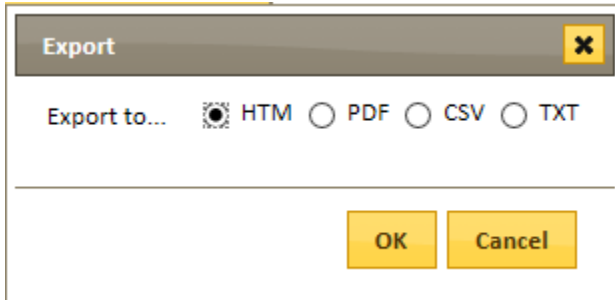
 Unassign Clients – This action opens a new dialog to select specific clients to remove them from existing SLA Profiles, Zones or pricelists. This action can be found on the Manage SLAs, Zones and Pricelist views.

Exporting and Emailing

Report results can be exported to a variety of file formats by selecting the Export option from the Action Panel at right. This will open an Export dialog to choose the file format:

Report results can also be emailed directly to a report recipient in one or more file format(s) by selecting the Email option from the Action Panel. This will open an Export dialog to choose the file format:

Tabular Grouping

Grouping can be done on all tabular reports. Grouping is done by simply dragging any column header to the report title bar.

Grouping Example: Group by Status

There is no maximum number of headers to group by within a report. Grouping order can also be changed by dragging the column header name to different order positions.
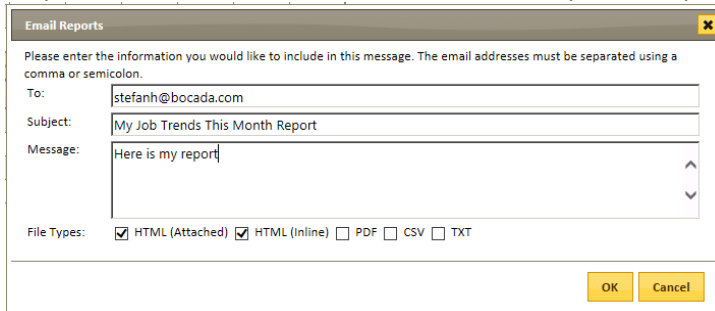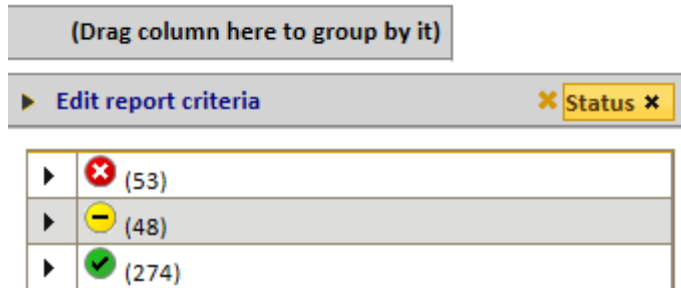
To remove the Group, click on the **X** next to the column header to be removed.

Reports can be saved with the columns grouping selected and emailed or exported.

Tabular Filtering

Filtering can be done on all tabular reports by using the in the lower left view of the report. Filtering differs from the criteria setting as the filtering option filters on data that is currently displayed (as opposed to determining what should be displayed). Users can filter on any of the columns that are on the current report display.
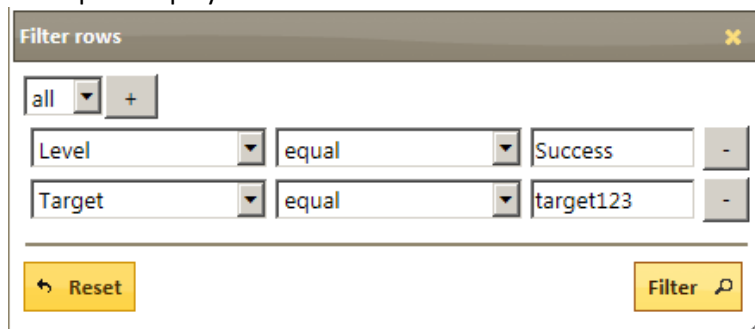
Filtering Dialog Box

Tabular Column Selection

Adding or removing columns can be done on all tabular reports by using the in the lower left view of the report. The selection of columns will be relevant to the report being viewed. How the report is viewed can be determined by which columns are chosen and the order they are listed.
Reports can be saved with the columns grouping selected and emailed or exported.
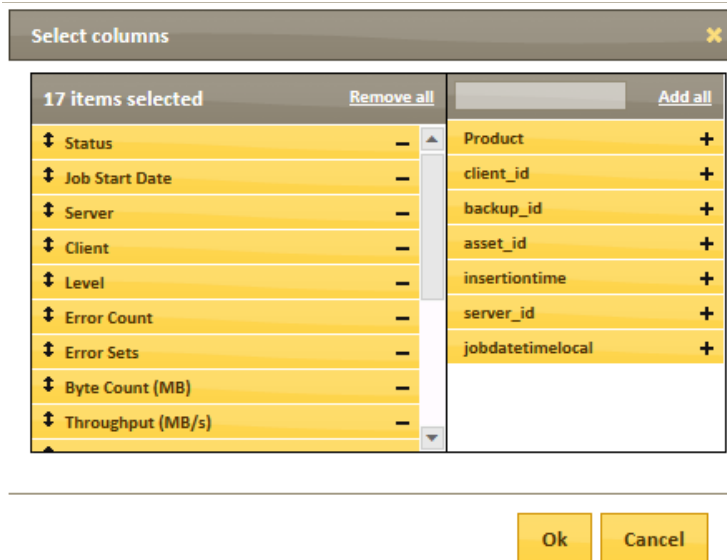
Select Columns Dialog Box

Custom Failure Icon

Step: 1 Calculating the error code
There are 24 types of error code:
  0: No Error
  1: Aborted Backup Error (1)
  2: Backup Configuration Error (2)
  3: Backup File Busy Error (3)
  4: Backup File Corrupt Error (4)
  5: File I/O Error (5)
  6: Backup File Locked Error (6)
  7: Backup File Permission Error (7)
  8: Backup File Verification Error (8)
  9: Backup Group Error (9)
  10: Backup Media Unavailable Error (10)
  11: Backup Media I/O Error (11)
  12: Backup Network Error (12)
  13: Backup Software Error (13)
  14: Backup Timeout Error (14)
  15: Backup Unknown Error (15)
  16: Backup Window Error (16)
  17: Backup X1 Error (17)
  18: Backup X2 Error (18)
  19: User Category 1 (19)
  20: User Category 2 (20)
  21: User Category 3 (21)

22: User Category 4 (22)
23: User Category 5 (23)
24: User Category 6 (24)

In order to use custom failure icon for specific error, first need to get the HEX number which corresponds to the failure error code. This can be done by setting the number of bit corresponding to error code number.

For file only errors: 3, 4, 5, 6, 7, 8, setting the integer number 3, 4, 5, 6, 7, 8 bits, then transform binary to a HEX number.

Binary: 0000 0000 0000 0000 0000 0000 1111 1100
Hex: 0xFC

Step 2: Save error code in Bocada database zparams table.
For file only errors run following SQL:
INSERT INTO zparams (paramname, paramvalue) values ('CustomFailureErrorCodeWithIcon', '0xFC')

Step 3: Upload the custom icon
(1) In order to upload custom icon, first need to go to WebUI\images folder, grant bocada domain user read, write and modify privilege.
(2) On left navigation menu click Administration -> Settings, click the on the right edit icon:

Click "Choose File" button choose the custom icon, needs to be in PNG format and size preferably in 18X18 pixel. Then click "Upload File" button. The custom icon file will be uploaded and saved in WebUI\images folder, the file name: "custom_failure_icon.png"

Step 4: Restart Bocada Service also refresh browser by "CTRL+F5". The custom icon will show up in all activity and trend reports inside Bocada as well as exported reports in HTML format.

Detailed Report Explanations
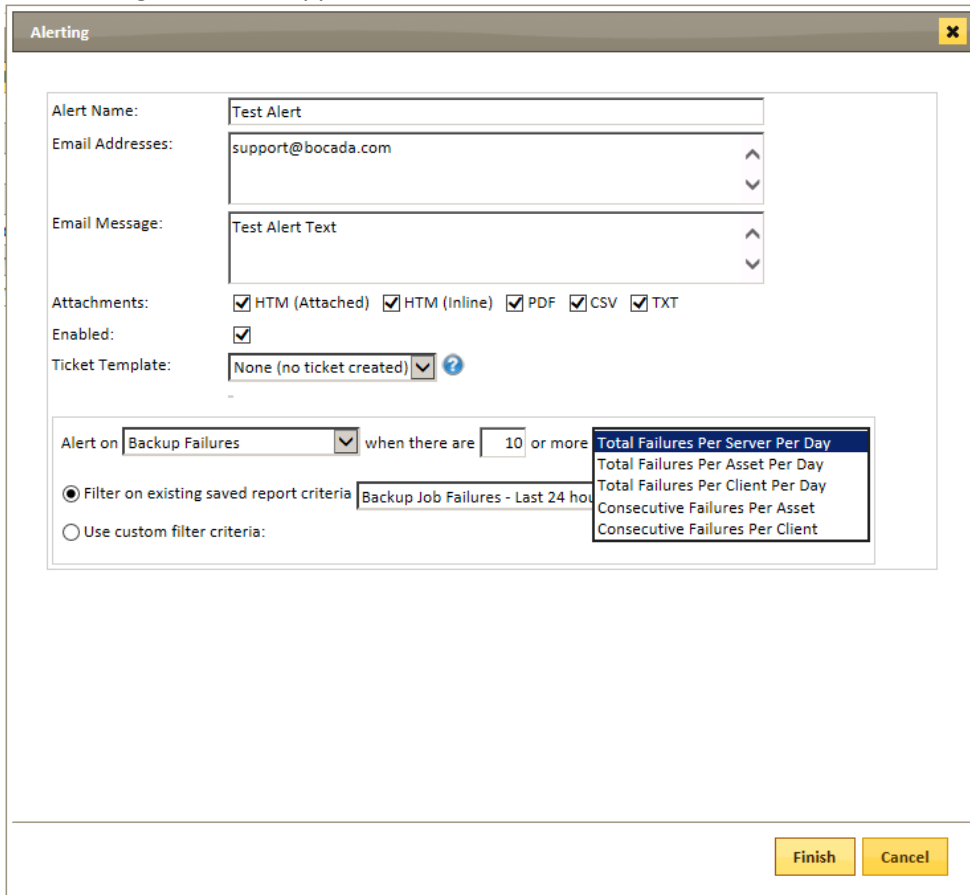
Alert Config
Found in Operations. *Alert Config* allows the user to configure alerts. Alerts are listed in the *Backup Alert Activity* or *Data Collection Alert Activity* reports, and can be emailed to users and sent to any trouble ticketing solution that can receive email. Backup and Restore Alerts notify when backup and restore failures match pre-defined criteria as data is collected from the backup servers into Bocada. Likewise, Data Collection Alerts can send email to users or to a trouble ticketing system when Bocada data collection updates have failed.

To Create or Edit an Alert:
1. Click the Add (or if editing an existing Alert, Edit) icon in the Action Panel.

2. The Alerting wizard will appear:

3. Configure the alert:
   a. Alert Name: (required).
   b. Email Addresses: (optional).
   c. Email Message: (optional).
   d. Choose attachment types.
   e. Enable or disable the Alert.
   f. Ticket Template: (optional; Please reference the *Integrating Ticketing System Guide)*.

4. Define alert type and failure criteria:
    a. Backup / Restore alerts: Set number & type of failures

Alert Name:	Backup_Alert_002
Email Addresses:	stefanh@bocada.com
Email Message:	This is an alert from Backup_Alert_002
Attachments:	☑ HTM (Attached) ☑ HTM (Inline) ☐ PDF ☐ CSV ☐ TXT
Enabled:	☑
Ticket Template:	Click here to configure ticketing

    Alert on Backup Failures ▾ when there are 10 or more Total Failures Per Server Per Day ▾
    ◉ Filter on existing saved report criteria Backup Job Failures (globally default report) ▾
    ○ Use custom filter criteria:

    b. Data Collection alerts: Alert will be triggered for each data collection failure

Alert Name:	Collection_Alert_003
Email Addresses:	stefanh@bocada.com
Email Message:	This is an alert from Collection_Alert_003
Attachments:	☑ HTM (Attached) ☑ HTM (Inline) ☐ PDF ☐ CSV ☐ TXT
Enabled:	☑

    Alert on Data Collection Failures ▾
    ☐ Write the alert to Event Viewer

5. To filter the criteria which may trigger this Alert, choose a Saved report, or define custom filter criteria:

    Alert on Data Collection Failures ▾
    ☑ Write the alert to Event Viewer
    ◉ Use custom filter criteria:

Update Types	Backup Products	Backup Servers	Schedule
Edit	Edit	Edit	Edit
Policy Occupancy Media Activity Backup	Backup Exec	bex05 bex2014	Week-End

Details of any triggered Alerts can be reviewed. Backup and Restore Alerts are displayed in the *Backup Alert Activity* report. Data Collection Alerts are displayed in the *Data Collection Alert Activity* report.

For more on Alerts, please see the *Bocada Administration Guide* section on Alert Config.

Annotations

Annotations provides the capability to keep permanent records or comments such as troubleshooting and resolution activity for backup clients.

Title	Description	Product	Server	Client	Created By	Sent To	Date From	Date To	Ticket Id	Ticket	Date Created
Test Annotation 3	This annotation i...	vRanger	vranger4	vm-55u1-3	BOCADA\stefanh		2017-07-21 06:00:26	2017-07-21 06:00:26		http://	2017-07-21 12:44:33
vranger2 Annot...	This one failed t...	vRanger	vranger2	fedora14-1	BOCADA\stefanh		2017-07-21 01:28:30	2017-07-21 01:28:31		http://	2017-07-21 12:42:17
vranger4 Annot...	This one failed	vRanger	vranger4	vm-move-jm (2)	BOCADA\stefanh		2017-07-21 08:00:14	2017-07-21 08:04:36		http://	2017-07-21 12:41:46

Annotations are entered and are viewable in reports such as *Job Activity, Backup Failures, Restore Activity,* or *Restore Failures*, the Annotations report allows easy filtering and grouping. The time, date, and creator of the annotation are automatically tracked for reference. To aid in filtering and grouping, a naming or ticket number convention for annotations may be desired.

Note: While the "Date From" and "Date To" fields of an annotation default to the start and end times of the activity which is annotated, the "Date Created" and "Date Modified" fields are displayed in your installation's default time zone. In some cases, this may make the annotation appear to have been created before the activity.

Job Activity

Job Activity lists backup attempts matching selected criteria over configurable periods of time, with the ability to drill down into exact details regarding the job activity by selecting the Status icon for that job.

The Criteria settings for the Backup Activity report are entirely customizable:

Include Error Codes adds an additional column to reports with the proprietary error codes from the backup product.

Note: In addition to most typical actions on the Action panel, the Job Activity report also includes the possible actions for adding and finding annotations, viewing SLA Impacts, and adding alerts.

Note: The default setting for Backup Attempts is to consider *Best Attempt per Level*. This setting displays the most recent, most successful job per level for each target for each backup day. If there are multiple attempts per target in that backup day it will display the most recent successful backup. If none of the attempts were successful, the most recent partially-successful attempt is displayed, or the most recent failure if there are no partially-successful backups. The criteria for *Consider all attempts* will display all attempts, *Last Attempt per Level* will display the most recent attempt that match the remaining criteria, and *Best Attempt per Backup Target* will display the most successful attempt regardless of backup level.

Backup Alert Activity

The *Backup Alert Activity* lists alerts that have been triggered for backup or restore failures based on previously configured alert profiles (See *Alert Config*).

Health Check : Alert Activity [Select to view other Health Check reports ▼]

Current backup day Default ((GMT-08:00) Pacific Time (US & Canada); Tijuana)   Click on an item below for more information

▶ Report criteria   (Drag column here to group by it)

Alert Time	Failure Condition	Count	Client	Target	Alert Name	Report Name	Report Type	Job Group	Zones
2017-07-21 10:48:21	≥ 1 / server / day	3	arcserve04	? ARCSERVE...	bf alert test	Global^Backup Job Failures	Backup Failures	Database protection job, ...	Application\Test Zo...
2017-07-21 10:48:22	≥ 1 / server / day	4	hpdp62.testlab.com	VEAgent VM...	bf alert test	Global^Backup Job Failures	Backup Failures	LocalFull, VEAgent vcente...	Application\Test Zo...
2017-07-21 10:48:28	≥ 1 / server / day	1	arcserve04	?	rf alert test	Global^Restore Job Failures	Restore Failures	Database protection job, ...	Application\Test Zo...
2017-07-21 10:48:34	≥ 1 / server / day	4	hpdp62.testlab.com	VEAgent VM...	no attachments test	Global^Backup Job Failures	Backup Failures	LocalFull, VEAgent vcente...	Application\Test Zo...
2017-07-21 10:48:34	≥ 1 / server / day	3	arcserve04	? ARCSERVE...	no attachments test	Global^Backup Job Failures	Backup Failures	Database protection job, ...	Application\Test Zo...
2017-07-21 11:07:40	≥ 1 / server / day	1	fedora14-1	fedora14-1	bf alert test	Global^Backup Job Failures	Backup Failures	Backup fedora14-1, File S...	Customer\Test Zone.
2017-07-21 11:07:40	≥ 1 / server / day	1	fedora14-1	fedora14-1	bf alert test	Global^Backup Job Failures	Backup Failures	Backup fedora14-1, File S...	Customer\Test Zone.
2017-07-21 11:07:45	≥ 1 / server / day	1	fedora14-1	fedora14-1	no attachments test	Global^Backup Job Failures	Backup Failures	Backup fedora14-1, File S...	Customer\Test Zone.
2017-07-21 11:07:45	≥ 1 / server / day	1	fedora14-1	fedora14-1	no attachments test	Global^Backup Job Failures	Backup Failures	Backup fedora14-1, File S...	Customer\Test Zone.
2017-07-21 11:10:14	≥ 1 / server / day	3	tl-ave-01.testlab.com	/Default-DD-...	bf alert test	Global^Backup Job Failures	Backup Failures	MC_SYSTEM_DD_Group, ...	Application\Test Zo...

View 1 - 100 of 270

⌄

Alert Backups   (Drag column here to group by it)

Status	Server Start Time	UTC Start Time	Error Count	Error Codes	Error Sets	Throughput (MB/s)	Server	Client	Product
❌	2017-07-20 09:41:14	2017-07-20 16:41:14	2	ARC_N0003, E3834	Backup Group Error (9), Bac...	0	arcserve04	arcserve04	ARCserve
❌	2017-07-20 11:00:05	2017-07-20 18:00:05	2	ARC_E405, E3724	Backup Unknown Error (15)	0	arcserve04	arcserve04	ARCserve
❌	2017-07-20 11:00:05	2017-07-20 18:00:05	2	ARC_E405, E3724	Backup Unknown Error (15)	0	arcserve04	arcserve04	ARCserve

🔍 ⊡ Byte count unit: TB ▼   Duration unit: Seconds ▼   View 1 - 3 of 3

Backup Duration Trends

Backup Duration Trends helps identify backup bottlenecks by showing the sum of the top ten backup durations per day over a selected period of time, in the form of a bar chart:
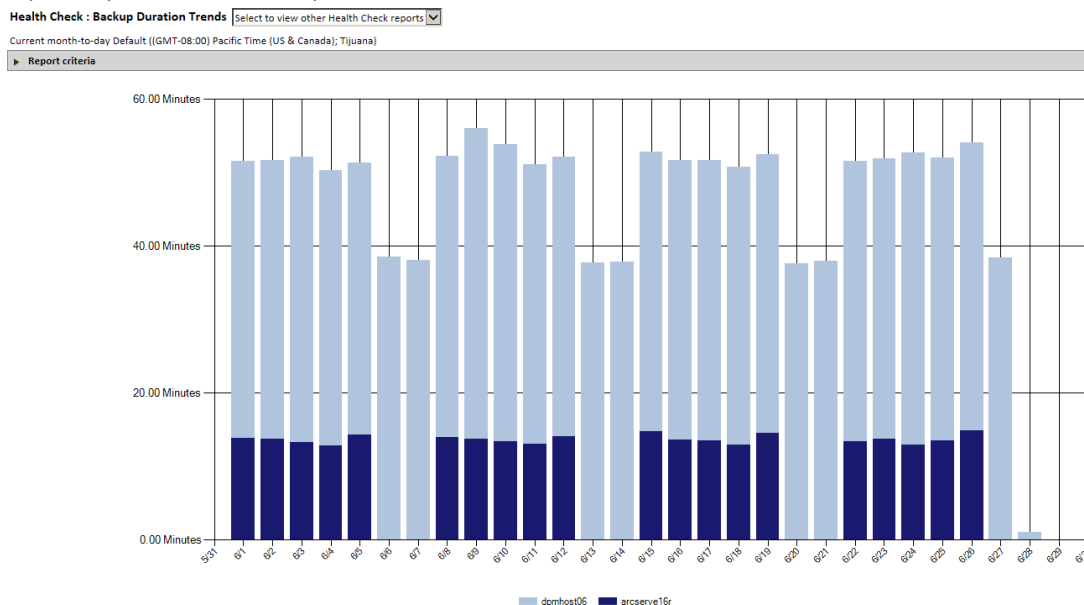
Problems are identified by observing spikes or excessive duration, and filtering by criteria. Clicking on a section of the bar will take users to the related granular job details:

Backup Error Trends

Backup Error Trends displays the trend over time of backup error count for selected criteria in the form of a bar graph:

Health Check : Backup Error Trends Select to view other Health Check reports ▽

Last 15 days Default ((GMT-08:00) Pacific Time (US & Canada); Tijuana)

▸ **Report criteria**

Legend: ▪ nsrhost04.testlab.com ▪ netapp1-console.testlab.com ▪ nbuhost08.testlab.com ▪ nbuhost08 ▪ dpmhost03.testlab.com ▪ dpmhost03 ▪ dpm2012-1.testlab.com ▪ dpm2012-1 ▪ (Other)
▪ nsrhost04 ▪ netapp1-console
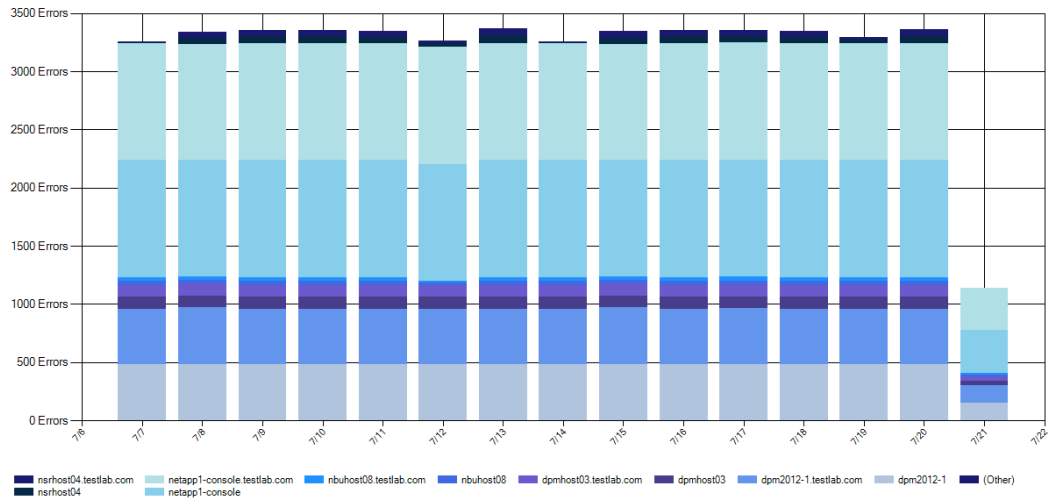
Mouse over any portion of a bar to view the date, server, and error count for that portion of the bar. Click on any portion of the bar graph for a granular view of the errors that contribute to that bar:

Backup Error Trends Details

2015-06-26 - 2015-06-26 Default ((GMT-08:00) Pacific Time (US & Canada); Tijuana)

▸ **Report criteria**

(Drag column here to group by it)

Date	Asset	Client	Server	Product	Error Count	Job Group	Error Types	Proprietary Error Codes	Media Server
2015-06-26 01:30:04	iscsi-vm2	iscsi-vm2	vranger4	vRanger	1	Backup 'iscsi-vm2'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 02:00:06	vm-move-jm (2)	vm-move-jm (2)	vranger4	vRanger	1	Backup 'vm-move-...	Operation Errors	QBOC0001	(Not Available)
2015-06-26 02:00:06	w08-nbu1	w08-nbu1	vranger4	vRanger	1	Backup 'w08-nbu1'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 02:00:35	vm-55u1-3	vm-55u1-3	vranger4	vRanger	1	Backup 'iscsi-shar...	Operation Errors	QBOC0001	(Not Available)
2015-06-26 02:30:05	vm-share	vm-share	vranger4	vRanger	1	Backup 'vm-share'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 03:15:05	VEAgent vc5_dc3	hpdp7-1.testlab.com	hpdp7-1	HP Data Protector	2	VEAgent vc5_dc3	Operation Errors, Other...	12:3125, 61:19004, 61:20006	(Not Available)
2015-06-26 05:30:05	iscsi-vm2	iscsi-vm2	vranger4	vRanger	1	Backup 'iscsi-vm2'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 06:00:34	vm-55u1-3	vm-55u1-3	vranger4	vRanger	1	Backup 'iscsi-shar...	Operation Errors	QBOC0001	(Not Available)
2015-06-26 06:30:05	vm-share	vm-share	vranger4	vRanger	1	Backup 'vm-share'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 08:00:04	vm-move-jm (2)	vm-move-jm (2)	vranger4	vRanger	1	Backup 'vm-move-...	Operation Errors	QBOC0001	(Not Available)
2015-06-26 09:30:04	iscsi-vm2	iscsi-vm2	vranger4	vRanger	1	Backup 'iscsi-vm2'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 10:00:34	vm-55u1-3	vm-55u1-3	vranger4	vRanger	1	Backup 'iscsi-shar...	Operation Errors	QBOC0001	(Not Available)
2015-06-26 10:30:05	vm-share	vm-share	vranger4	vRanger	1	Backup 'vm-share'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 11:00:02	Computer\System Prot...	dpmhost06.testlab.com	dpmhost06	Microsoft DPM	2	dpmhost06-Syste...	Media Errors, Other Err...	214, FTL	(Not Available)
2015-06-26 11:00:02	Computer\System Prot...	dpmhost06.testlab.com	dpmhost06	Microsoft DPM	2	dpmhost06-Syste...	Media Errors, Other Err...	214, FTL	(Not Available)
2015-06-26 12:00:05	Computer\System Prot...	dpmhost06.testlab.com	dpmhost06	Microsoft DPM	2	dpmhost06-Syste...	Media Errors, Other Err...	214, FTL	(Not Available)
2015-06-26 12:00:05	Computer\System Prot...	dpmhost06.testlab.com	dpmhost06	Microsoft DPM	2	dpmhost06-Syste...	Media Errors, Other Err...	214, FTL	(Not Available)
2015-06-26 13:30:04	iscsi-vm2	iscsi-vm2	vranger4	vRanger	1	Backup 'iscsi-vm2'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 14:00:05	vm-move-jm (2)	vm-move-jm (2)	vranger4	vRanger	1	Backup 'vm-move-...	Operation Errors	QBOC0001	(Not Available)
2015-06-26 14:00:05	w08-nbu1	w08-nbu1	vranger4	vRanger	1	Backup 'w08-nbu1'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 14:00:34	vm-55u1-3	vm-55u1-3	vranger4	vRanger	1	Backup 'iscsi-shar...	Operation Errors	QBOC0001	(Not Available)
2015-06-26 14:30:04	vm-share	vm-share	vranger4	vRanger	1	Backup 'vm-share'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 15:05:50	SqlServerWriter	arcserve16r	arcserve16r	ARCserve	2	Backup [Rotation, ...	Other Errors	BOC_N0000, E10000000, E3556	(Not Available)
2015-06-26 15:05:56	WMI Writer	arcserve16r	arcserve16r	ARCserve	1	Backup [Rotation, ...	Other Errors	BOC_N0000, E10000000	(Not Available)
2015-06-26 16:17:23	?	arcserve16r	arcserve16r	ARCserve	2	Job1	Media Errors, Operatio...	ARC_N0003, BOC_N0000, E3834	(Not Available)
2015-06-26 17:30:04	iscsi-vm2	iscsi-vm2	vranger4	vRanger	1	Backup 'iscsi-vm2'	Operation Errors	QBOC0001	(Not Available)
2015-06-26 18:00:34	vm-55u1-3	vm-55u1-3	vranger4	vRanger	1	Backup 'iscsi-shar...	Operation Errors	QBOC0001	(Not Available)

| | | | | | 59 | | | | |

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Backup Failures

Backup Failures is a subset of Job Activity that displays only failed and partially successful backups. This report can be filtered and zoned to view specific jobs. Each failed job will include server, client and error information. Selecting a specific Status icon drills into details about the type & reason of failure to aid in problem resolution.

Problem Management : Backup Job Failures [Select to view other Problem Management reports ▼]

Current month-to-day Backup Server Time

▶ Report criteria   (Drag column here to group by i

Status	Job Start Date	Error Count	Error Sets	Byte Count (GB)	Throughput (MB/s)	Server	Client	Expiration	Level	Proprietar
❌	2015-06-29 03:00:01	1	Backup Unknown Error (15)	0.000	0	vcenter5	vrangerrep3		Snapshot	Snapsh
❌	2015-06-28 03:00:02	1	Backup Unknown Error (15)	0.000	0	vcenter5	vrangerrep3		Snapshot	Snapsh
❌	2015-06-27 23:30:04	1	Backup Group Error (9)	0.000	0	hpdp7-1	hpdp7-1.testlab.com	2015-07-03 23:30:04	Full	full
❌	2015-06-27 23:30:04	1	Backup Group Error (9)	0.000	0	hpdp7-1	hpdp7-1.testlab.com	2015-07-03 23:30:04	Full	full
❌	2015-06-27 23:30:04	1	Backup Group Error (9)	0.000	0	hpdp7-1	hpdp7-1.testlab.com	2015-07-03 23:30:04	Full	full
❌	2015-06-27 23:30:04	5	Backup Configuration Error ...	0.000	0	hpdp7-1	hpdp7-1.testlab.com		Other	Other
❌	2015-06-27 23:07:17	1	Backup Unknown Error (15)	0.000	0	vcenter5	vm-new01		Snapshot	Snapsh
❌	2015-06-27 23:06:38	1	Backup Unknown Error (15)	0.000	0	vcenter5	netapp2		Snapshot	Snapsh
❌	2015-06-27 23:05:56	1	Backup Unknown Error (15)	0.000	0	vcenter5	vrangerrep3		Snapshot	Snapsh
❌	2015-06-27 23:00:03	1	Backup Unknown Error (15)	0.000	0	dpmhost06	exchange.testlab.com		Archival	Tape Ba
❌	2015-06-27 23:00:03	1	Backup Unknown Error (15)	0.000	0	dpmhost06	dpmhost06.testlab.com		Archival	Tape Ba
❌	2015-06-27 22:30:05	1	Backup Configuration Error ...	0.000	0	vranger4	vm-share		Unknown	Unknov
❌	2015-06-27 22:00:34	1	Backup Configuration Error ...	0.000	0	vranger4	vm-55u1-3		Unknown	Unknov
❌	2015-06-27 21:30:04	1	Backup Configuration Error ...	0.000	0	vranger4	iscsi-vm2		Unknown	Unknov
❌	2015-06-27 21:00:04	2	Backup Media Unavailable ...	0.000	0	dpmhost06	dpmhost06.testlab.com	2015-07-01 21:00:04	Incremental	Synchro
❌	2015-06-27 20:00:04	1	Backup Configuration Error ...	0.000	0	vranger4	vm-move-jm (2)		Unknown	Unknov
❌	2015-06-27 14:00:06	1	Backup Configuration Error ...	0.000	0	vranger4	w08-nbu1		Unknown	Unknov
❌	2015-06-27 03:15:05	2	Backup Group Error (9), Bac...	0.000	0	hpdp7-1	hpdp7-1.testlab.com		Other	Other
❌	2015-06-26 23:36:31	1	Backup Unknown Error (15)	0.000	0	vcenter5	vm-new01		Snapshot	Snapsh
❌	2015-06-26 23:35:50	1	Backup Unknown Error (15)	0.000	0	vcenter5	netapp2		Snapshot	Snapsh
❌	2015-06-26 23:34:51	1	Backup Unknown Error (15)	0.000	0	vcenter5	vrangerrep3		Snapshot	Snapsh
❌	2015-06-26 23:30:05	1	Backup Group Error (9)	0.000	0	hpdp7-1	hpdp7-1.testlab.com	2015-07-02 23:30:05	Full	full
❌	2015-06-26 23:30:05	1	Backup Group Error (9)	0.000	0	hpdp7-1	hpdp7-1.testlab.com	2015-07-02 23:30:05	Full	full
❌	2015-06-26 23:30:05	1	Backup Group Error (9)	0.000	0	hpdp7-1	hpdp7-1.testlab.com	2015-07-02 23:30:05	Full	full
❌	2015-06-26 23:30:05	5	Backup Configuration Error ...	0.000	0	hpdp7-1	hpdp7-1.testlab.com		Other	Other
❌	2015-06-26 22:30:04	1	Backup Configuration Error ...	0.000	0	vranger4	vm-share		Unknown	Unknov
❌	2015-06-26 22:00:34	1	Backup Configuration Error ...	0.000	0	vranger4	vm-55u1-3		Unknown	Unknov
❌	2015-06-26 21:30:05	1	Backup Configuration Error ...	0.000	0	vranger4	iscsi-vm2		Unknown	Unknov
❌	2015-06-26 21:00:05	2	Backup Media Unavailable	0.000	0	dpmhost06	dpmhost06.testlab.com	2015-06-30 21:00:05	Incremental	Synchro

🔍 🗗 Byte count unit: [GB ▼] Duration unit: [Seconds ▼]   View 1 - 100 of 473

Backup Health

Backup Health displays all successes, failures and partial failures for backups, replications and snapshots. This report can be set for the entire environment or can be filtered by zone, backup application etc. Represented in a pie chart, the Backup Health report quickly provides an overview of success percentage (green), failure percentage (red), and partial failure percentage (yellow) for the environment:

Health Check : Backup Health [Select to view other Health Check reports ▼]

Current backup day Backup Server Time

▶ Report criteria

■ Failure: 49.35 % (38 jobs)   ■ Success: 50.65 % (39 jobs)
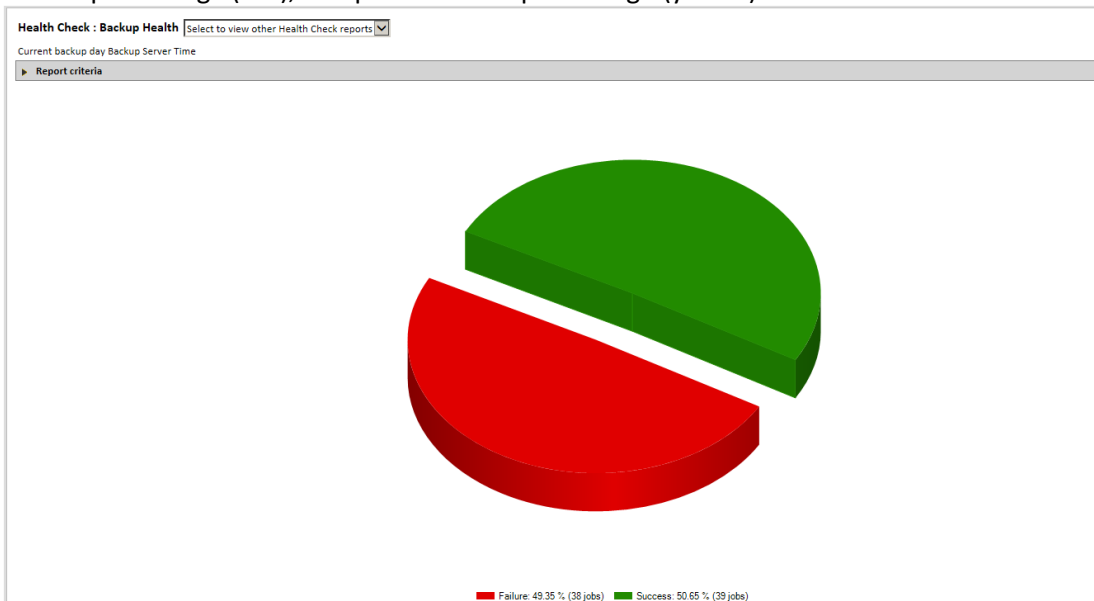
Clicking on a section of the pie will take users to the related granular job details in the Job Activity report.

Backup Health Trends

Backup Health Trends displays the trend over time of backups that are successful, partially successful and failure in the form of a bar chart:
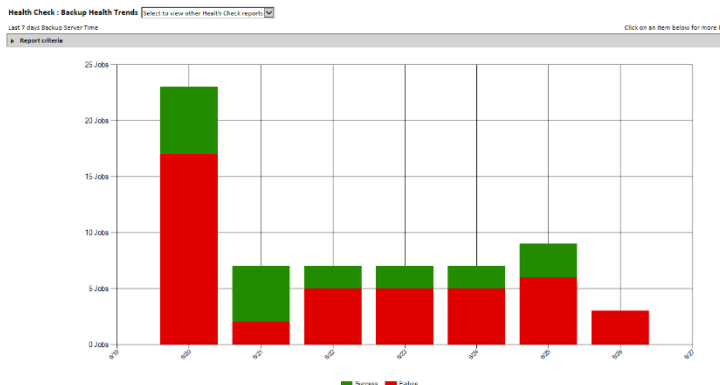
Clicking on a section of a bar will take users to the related job details:

Backup Health Trends Details

2015-06-25 - 2015-06-25 Backup Server Time

▶ Report criteria   (Drag column her

Status	Job Start Date	Error Count	Error Sets	Byte Count (MB)	Throughput (MB/s)	Server	Client	Expiration	Level
✗	2015-06-25 23:44:15	1	Backup Unknown Error (15)	0.00	0	vcenter5	vm-new01		Snapshot
✗	2015-06-25 23:43:18	1	Backup Unknown Error (15)	0.00	0	vcenter5	netapp2		Snapshot
✗	2015-06-25 23:42:19	1	Backup Unknown Error (15)	0.00	0	vcenter5	vrangerrep3		Snapshot
✗	2015-06-25 16:17:19	2	Backup Group Error (9), Bac...	0.00	0	arcserve16r	arcserve16r	2015-06-25 16:17:19	Unknown
✗	2015-06-25 15:06:05	1	Backup Unknown Error (15)	0.00	0	arcserve16r	arcserve16r	2015-06-25 15:06:05	Incremental
✗	2015-06-25 15:06:00	2	Backup Unknown Error (15)	0.00	0	arcserve16r	arcserve16r	2015-06-25 15:06:00	Incremental

Backup Server Activity

Found in [Operations](). *Backup Server Activity* displays a tabular report of all messages returned from the backup servers designated in *Backup Servers*.

Operations : Server Activity

Current backup day Backup Server Time

▶ Report criteria   (Drag column here to group by i

Message Date	Product	Server	Message	Error Count	Error Set	Error Code
2015-06-23 11:37:16	TSM	tsm633	ANR0299I A full database backup will be started. The archive log space used is 90 % and the archive log spac...	0		ANR0299I
2015-06-23 11:37:16	TSM	tsm633	ANR2994E The automatic database backup was terminated.	1	Backup Configuration Error ...	ANR2994E
2015-06-23 11:29:20	TSM	tsm633	ANR0398W Session 39273 for node VMCLI_1 has failed to begin a proxy session for node VCENTER5SP2_DAT...	1	Backup Configuration Error ...	ANR0398W
2015-06-23 11:29:19	TSM	tsm633	ANR0397I Session 39272 for node VMCLI_1 has begun a proxy session for node VCENTER5SP2_DATACENTER...	0		ANR0397I
2015-06-23 11:29:19	TSM	tsm633	ANR0399I Session 39272 for node VMCLI_1 has ended a proxy session for node VCENTER5SP2_DATACENTER...	0		ANR0399I
2015-06-23 11:29:18	TSM	tsm633	ANR0397I Session 39271 for node VMCLI_1 has begun a proxy session for node NEW_DATACENTER. (SESSIO...	0		ANR0397I
2015-06-23 11:29:18	TSM	tsm633	ANR0399I Session 39271 for node VMCLI_1 has ended a proxy session for node NEW_DATACENTER. (SESSIO...	0		ANR0399I
2015-06-23 11:27:12	TSM	tsm633	ANR0299I A full database backup will be started. The archive log space used is 90 % and the archive log spac...	0		ANR0299I
2015-06-23 11:27:12	TSM	tsm633	ANR2994E The automatic database backup was terminated.	1	Backup Configuration Error ...	ANR2994E
2015-06-23 11:17:09	TSM	tsm633	ANR0299I A full database backup will be started. The archive log space used is 90 % and the archive log spac...	0		ANR0299I
2015-06-23 11:17:09	TSM	tsm633	ANR2994E The automatic database backup was terminated.	1	Backup Configuration Error ...	ANR2994E
2015-06-23 11:09:20	TSM	tsm633	ANR0398W Session 39269 for node VMCLI_1 has failed to begin a proxy session for node VCENTER5SP2_DAT...	1	Backup Configuration Error ...	ANR0398W
2015-06-23 11:09:19	TSM	tsm633	ANR0397I Session 39268 for node VMCLI_1 has begun a proxy session for node VCENTER5SP2_DATACENTER...	0		ANR0397I
2015-06-23 11:09:19	TSM	tsm633	ANR0399I Session 39268 for node VMCLI_1 has ended a proxy session for node VCENTER5SP2_DATACENTER...	0		ANR0399I
2015-06-23 11:09:18	TSM	tsm633	ANR0397I Session 39267 for node VMCLI_1 has begun a proxy session for node NEW_DATACENTER. (SESSIO...	0		ANR0397I
2015-06-23 11:09:18	TSM	tsm633	ANR0399I Session 39267 for node VMCLI_1 has ended a proxy session for node NEW_DATACENTER. (SESSIO...	0		ANR0399I
2015-06-23 11:07:04	TSM	tsm633	ANR0299I A full database backup will be started. The archive log space used is 90 % and the archive log spac...	0		ANR0299I
2015-06-23 11:07:04	TSM	tsm633	ANR2994E The automatic database backup was terminated.	1	Backup Configuration Error ...	ANR2994E
2015-06-23 10:57:00	TSM	tsm633	ANR0299I A full database backup will be started. The archive log space used is 90 % and the archive log spac...	0		ANR0299I
2015-06-23 10:57:00	TSM	tsm633	ANR2994E The automatic database backup was terminated.	1	Backup Configuration Error ...	ANR2994E
2015-06-23 10:49:19	TSM	tsm633	ANR0397I Session 39264 for node VMCLI_1 has begun a proxy session for node VCENTER5SP2_DATACENTER...	0		ANR0397I
2015-06-23 10:49:19	TSM	tsm633	ANR0399I Session 39264 for node VMCLI_1 has ended a proxy session for node VCENTER5SP2_DATACENTER...	0		ANR0399I
2015-06-23 10:49:19	TSM	tsm633	ANR0398W Session 39265 for node VMCLI_1 has failed to begin a proxy session for node VCENTER5SP2_DAT...	1	Backup Configuration Error ...	ANR0398W
2015-06-23 10:49:18	TSM	tsm633	ANR0397I Session 39263 for node VMCLI_1 has begun a proxy session for node NEW_DATACENTER. (SESSIO...	0		ANR0397I
2015-06-23 10:49:18	TSM	tsm633	ANR0399I Session 39263 for node VMCLI_1 has ended a proxy session for node NEW_DATACENTER. (SESSIO...	0		ANR0399I
2015-06-23 10:46:56	TSM	tsm633	ANR0299I A full database backup will be started. The archive log space used is 90 % and the archive log spac...	0		ANR0299I
2015-06-23 10:46:56	TSM	tsm633	ANR2994E The automatic database backup was terminated.	1	Backup Configuration Error ...	ANR2994E
2015-06-23 10:36:52	TSM	tsm633	ANR0299I A full database backup will be started. The archive log space used is 90 % and the archive log spac...	0		ANR0299I

🔍 ▣   View 1 - 100 of 328

Criteria Selection: Server Activity can be narrowed by Date Range, by Backup Product, and by Backup Servers.

As with all tabular reports, it is possible to group the report by any column, by dragging that column header to the gray Report Criteria bar at top.

Backup Servers

Found in Operations. *Backup Servers* allows users to add, remove, or edit settings for backup servers.

Adding a Server: Selecting the Add action will open the Add Servers wizard. On the initial *Servers* tab, you can configure a server and the backup application it is running, with the properties necessary to connect to it:

Scheduling server actions for Backup, Storage, and Policy collection is managed on the *Schedules* tab. Select a predefined schedule, or click the Add Schedule button to create a new Schedule.

Setting the timespan for initial data collection, the DCS name, the level of logging (if any), and the time-span collected and committed in a single chunk, is managed on the *Settings* tab.

Note: Setting 'Debug logging level' should be set at 'Disabled' unless there are collection issues, as the log files can take up considerable server space if not pruned regularly. In the event of collection issues, please contact Bocada Support.

The final tab, *Updates*, allows you to run data collection immediately, regardless of the schedule for the server configured. Selecting the Test Connection button will test the connection to the server using the names and credentials supplied in the wizard. Note: It is advisable to test the connection for each new server added, and refresh until the status shows 'Successful'.

Edit a Server: Selecting a server and then selecting the Edit action will open the Edit Servers wizard. This is functionally identical to the Add Server wizard, above.

Remove a Server: Selecting a server and then selecting the Delete action will remove a server and all its settings from the list.

Assign Data Domain: See the *Bocada Administration Guide* for details on this action.

Backup Trends

Backup Trends displays the count over time of bytes transferred by successful backup jobs. This helps to determine the demands placed on system resources by a variety of objects including backup servers, backup clients, and assets, in the form of a bar chart:

Bocada Reporting Guide
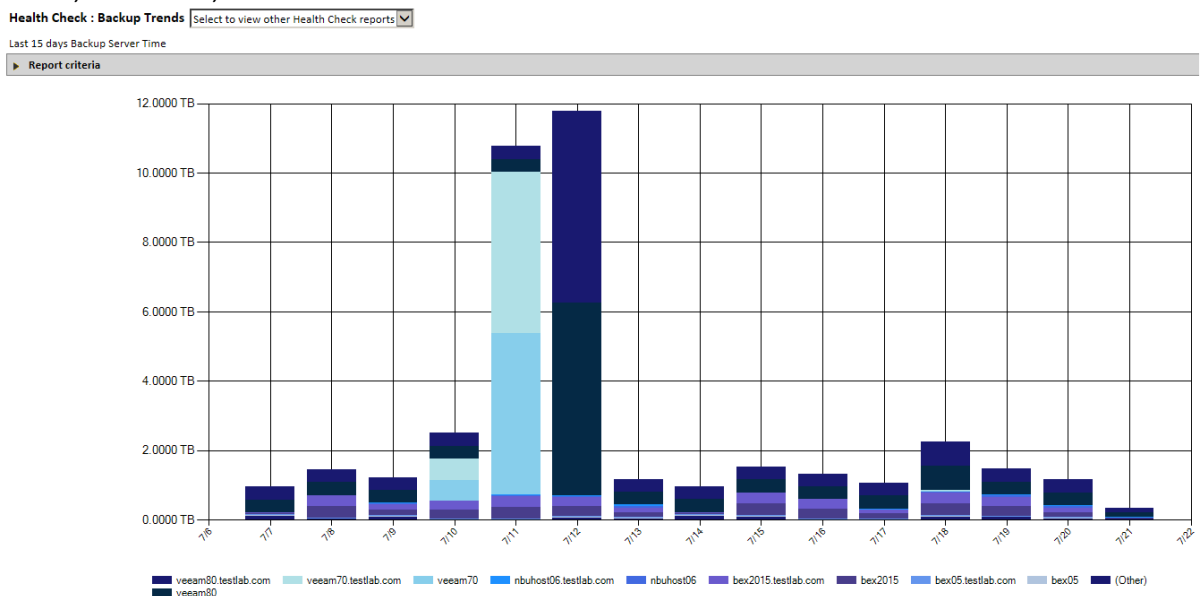
Clicking on a bar will display the details contributing to the byte count for that period:

Backup Trends Details

2015-06-19 - 2015-06-19 Backup Server Time

▶ Report criteria

Asset	Client	Server	Product	Zones	Job Group	Backup Level	Sla Profile	Media Server
Mailbox Database 1205...	exchange.testlab.com	dpmhost06	Microsoft DPM	Region\PST	exchange_backup	Differential	Unassigned	(Unknown)
Mailbox Database 1205...	exchange.testlab.com	dpmhost06	Microsoft DPM	Region\PST	exchange_backup	Incremental	Unassigned	(Unknown)
Mailbox Database 1205...	exchange.testlab.com	dpmhost06	Microsoft DPM	Region\PST	exchange_backup	Differential	Unassigned	(Unknown)
Mailbox Database 1205...	exchange.testlab.com	dpmhost06	Microsoft DPM	Region\PST	exchange_backup	Incremental	Unassigned	(Unknown)
Mailbox Database 1205...	exchange.testlab.com	dpmhost06	Microsoft DPM	Region\PST	exchange_backup	Differential	Unassigned	(Unknown)
Mailbox Database 1205...	exchange.testlab.com	dpmhost06	Microsoft DPM	Region\PST	exchange_backup	Incremental	Unassigned	(Unknown)
Mailbox Database 1205...	exchange.testlab.com	dpmhost06	Microsoft DPM	Region\PST	exchange_backup	Differential	Unassigned	(Unknown)
Mailbox Database 1205...	exchange.testlab.com	dpmhost06	Microsoft DPM	Region\PST	exchange_backup	Incremental	Unassigned	(Unknown)

Backup Trends Details

Backup Trends Details displays in table format the same data as the *Backup Trends* graphical report: the trend over time of bytes transferred to determine the demands placed on system resources by a variety of objects including backup servers, backup clients, and assets, in tabular form. Failed backup jobs are ignored in this report:

Client	04/29	04/30	05/01	05/02	05/03	05/04	05/05
dpmhost02.testlab.com (d...	0.056	0.141	0.142	0.141	0.142	0.141	0.085
dpmhost02.testlab.com (d...	0.056	0.141	0.142	0.141	0.142	0.141	0.085
nbuhost06 (nbuhost06)	0	0	0	0	0	0	0
t1-vm64-client1 (nbuhost0...			0.002	0.002	0.002	0.002	
vm-client3 (nbuhost06)	14.734	19.047	18.863	15.747	31.51	31.503	15.748
vm-client8 (nbuhost06)	30.382	28.235	56.526	18.851	12.583	12.543	6.251
nbuhost06 (nbuhost06.tes...	0	0	0	0	0	0	0
t1-vm64-client1 (nbuhost0...			0.002	0.002	0.002	0.002	
vm-client3 (nbuhost06.tes...	14.734	19.047	18.863	15.747	31.51	31.503	15.748
vm-client8 (nbuhost06.tes...	30.382	28.235	56.526	18.851	12.583	12.543	6.251
bex04 (bex04)	0	0	0	0	0	0	
bex04 (bex04.testlab.com)	0	0	0	0	0	0	

Storage Servers

Storage Servers provides details on storage usage and storage capacity by backup server.

Bocada Reporting Guide

Storage Monitoring : Occupancy Status - 60 Days
Last 60 days Default ((GMT-08:00) Pacific Time (US & Canada); Tijuana)

Report criteria   (Drag column here to group by it)

Product	Server	Media Library	Media Pool	Total Volume Usage (GB)	Total Volume Free (GB)	Total Volume Capacity (GB)	% Total
Data Domain	tl-ddve-03.testlab.com	n/a (tl-ddve-03.testlab.com)	n/a	207.000	532.800	739.800	27.98
Avamar	tl-ave-01.testlab.com	n/a (tl-ave-01.testlab.com)	NODE_0.0	388.684	1110.561	1499.244	25.93
AWS Backup v1	aws_testlab	n/a (aws_testlab)	n/a	0.000	813.000	813.000	0
Azure Cloud	iaastest	n/a (iaastest)	iaastest	36.355	unavailable	0.000	unav...
Azure Cloud	iaastestdiag419	n/a (iaastestdiag419)	vault891	61.904	unavailable	0.000	unav...
Azure Cloud	marstest1	n/a (marstest1)	marstest	1.717	unavailable	0.000	unav...
Cohesity v1	tl-coh-c01	n/a (tl-coh-c01)	tl-coh-c01	31.153	478.851	510.004	6.11
Commvault	tl-comv-ws02	comvws02-ddve04-shareL...	MasterPo...	319.544	494.371	813.915	39.26

🔍 🗐 Byte count unit: GB ⌄   View 1 - 47 of 47

Storage usage can be displayed for the entire environment, specific backup servers or media libraries, or for particular media pools whether cloud, disk, or tape. The report allows users to view how available tape capacity is used, to determine whether sufficient media volumes are available, and to identify conditions such as full or frozen volumes.

Storage Clients

Similar to *Storage Servers*, this report splits out capacity data at the Client level.

Storage Trends

Storage Trends displays the amount of unexpired data that is available for restore, trended over time, in the form of a bar chart. Each bar in the chart represents the total amount stored per grouping, per day, week or month. Grouping can be done by Application, Media Pool, Backup Server, etc. This report makes it possible for a user to assess the current level of disk or tape library utilization and anticipate the need for future drives by measuring changes in usage over time:

Storage Monitoring : Storage Trends

Last 75 days

> Report criteria
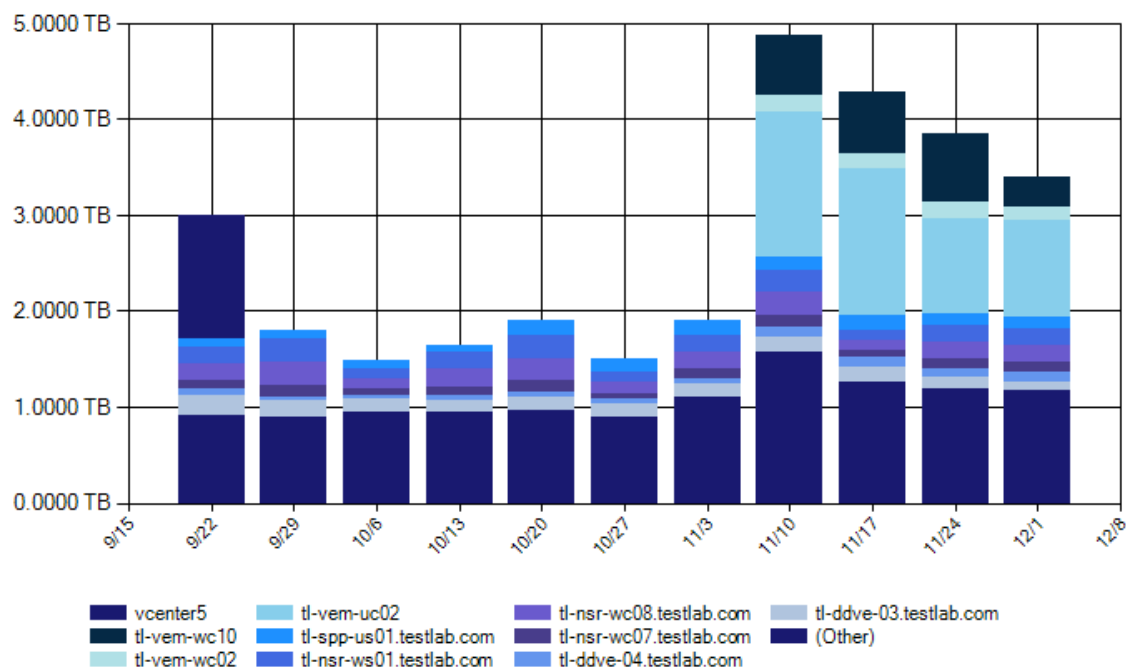
Clicking on a bar will drill down and display the details contributing to the byte count for that time period.

Storage Trends Tabular

Storage Trends Tabular displays the amount of unexpired data that is available for restore just as the Storage Trends report does, in a tabular report format.

Change Analysis (NBU / Spectrum Protect)

Change Analysis highlights the changes to individual NBU or Spectrum Protect (TSM) policies over time. For instance, creating a new policy, assigning/removing a client to a policy, or a schedule change will appear here, allowing users to see impacts of such policy changes.

Chargeback

Chargeback displays a report of the backups performed on a client within that client's designated SLA for that client's designated Price List, and provides subtotals and totals:

SLA : SLA Chargeback [Select to view other SLA reports ▼]

Current backup day Backup Server Time

▶ Edit report criteria

Price List	Client	Server	Backup Groups	Zones	Policy	Files	Backups	per Backup	GBs	per GB	Total
PriceList001	exchange.testlab.com	dpmhost06	exchange_backup	Application\DPM, R...		152	38	0.03	0.15	0.02	1.14
PriceList001	nbuhost76ga.testlab.c...	nbuhost76ga	CatalogBackup	Application\NBU, N...		468	2	0.03	0.28	0.02	0.07
PriceList003	dpmhost06.testlab.com	dpmhost06	client12-sql, dpmhost06-...	Application\DPM, N...		0	1	0.00	0.00	0.09	0.00
						620	41		0.43		1.21

Cohesity Storage Domains

Found in Storage. Cohesity Storage Domains shows the basic configuration information, namely the storage capacity and storage capacity used for Cohesity's configured storage domains.

Consecutive Failures

Consecutive Failures highlights the daily backup jobs for targets which have failed for a specified number of consecutive days (defined in the report criteria) since the most recent success. This report is a subset of the Job Trends report so please see documentation on the Job Trends report. The overall date range must be longer than the number of consecutive failure days that are checked for.

You can also configure the report to detect missing or "no attempt" backups. When you do that, the current day (today) in a last N days report will not count the final day as a missed backup because the backup for that day may not have run yet. The backup target must have had at least one attempt in the overall date range.

Executive Summary Report

Executive Summary rolls up a variety of backup statistics across chosen time periods, serving as an assessment of a backup environment for measures such as amount of data backed up, number of backup servers and clients in the environment, and percent of successful backup jobs. Some of the columns in the Executive Summary report include:

% Target Success: This is calculated using the result of the job using the best attempt per backup target per day logic. For example, suppose that you have a schedule where on each day if 10 targets were backed up multiple times per day. On a particular day, if 9 targets had both some successful jobs and some failure jobs ,and one target had only failed jobs, then your *% Target Success* is 90 percent.

In Progress Job Trends

The *In-Progress Job Trends* report displays the currently running, pending, and expected jobs, as well as the status of those jobs over time as they complete, and their status is resolved to Success/Partial Success/Failure.

The In-Progress reports introduce new icons for new job Statuses, as shown in the table below:

Icon	Status	Long description also shown in Mouseover
	Failed	Backup has failed. Run backup data collection to get more details.
	Future	Next-future jobs scheduled to run.
	Running	Backup is running.
	Missed window	Backup failed due to missed backup window. Run backup data collection to get more details.
	Severed	Backup failed due to severed network connection. Run backup data collection to get more details.
	Pending	Backup is queued by schedule but has not started.
	Restarted	Backup was restarted and is running. Run backup data collection to get more details.
	Successful	Backup has successfully completed. Run backup data collection to get more details.

Health Check : In Progress Job Trends Select to view other Health Check reports ⌄

Last 7 days Backup Server Time

▶ Report criteria

	Backup Server/Client	07/09	07/08	07/07	07/06	07/05	07/04
▸	commvault90	⊗	⊖	⊖	⊖	⊖	⊖
▸	commvault90.testlab.c...	⊗	⊖	⊖	⊖	⊖	⊖
▸	hpdp8	⊗	⊖	⊖	⊖	⊖	⊖
▸	hpdp8.testlab.com	⊗	⊖	⊖	⊖	⊖	⊖
▸	hpdp9	⊖	⊖	⊖	⊖	⊖	⊖
▸	hpdp9.testlab.com	⌛	⊖	⊖	⊖	⊖	⊖
▸	nbu77			⊗	⊖	⊖	⊖
▸	nbu77.testlab.com			⊗	⊖	⊖	⊖
▸	netapp1-console	⊖	⊖	⊖	⊖	⊖	⊖
▸	netapp1-console.testla...	⊖	⊖	⊖	⊖	⊖	⊖
▸	tl-abs-ws01	⊖	⊖	⊖	⊖	⊖	⊖
▸	tl-abs-ws01.testlab.com	⊖	⊖	⊖	⊖	⊖	⊖
▸	tl-ave-01.testlab.com		⊗	⊗	⊗	⊗	⊗
▸	tl-dp-us01	⊗	⊗	⊗	⊗	⊗	⊗
▸	tl-dp-us01.testlab.com	📅	⊗	⊗	⊗	⊗	⊗
▸	tl-dp-us03	✔	✔	✔			
▸	tl-dp-us03.testlab.com	📅	✅	✅	✅	✅	✅
▸	tl-dp-ws04	✖	✖	✖	📅		
▸	tl-dp-ws04.testlab.com	📅	⊖	⊖	⊖	⊖	⊖

In Progress Jobs

The *In-Progress Jobs* report displays a tabular report of currently running, pending, and expected jobs.

The selectable status criteria for *In-Progress Jobs* are different than the Success/Partial/Failure status seen for most other reports. See section above for the meaning of the new outcome statuses.

Note: The In-Progress Jobs report only displays the most recent Active jobs per server or client, as there may be many of these expected or running at the same time.

Last 24 hours Backup Server Time   Click on an item below for more informat

▶ Report criteria   (Drag column here to group by

State	Status	Total Duration	Next Scheduled Backup	Backup Product	Backup Server	Client	Queued Date	Backup Start	Backup Comple
⌛	Pending	0.00		Commvault	tl-comv-ws01.testlab.com	tl-comv-wc01	2017-12-01 20:00:11		
⌛	Pending	0.00		Commvault	tl-comv-ws01	tl-comv-wc01	2017-12-01 20:00:11		
⌛	Pending	0.00	2018-07-09 13:35:00	HPE Data Protector	hpdp9.testlab.com	hpdp9.testlab.com	2018-07-09 12:00:07		
⌛	Pending	0.00	2018-07-09 13:35:00	HPE Data Protector	hpdp9.testlab.com	hpdp9.testlab.com	2018-07-09 12:00:08		
⌛	Pending	0.00		Commvault	commvault90.testlab.com	commvault90	2018-04-25 13:00:11		
⌛	Pending	0.00		Commvault	commvault90.testlab.com	commvault90	2018-04-25 14:00:05		
⌛	Pending	0.00		Commvault	commvault90.testlab.com	commvault90	2018-04-25 21:00:09		
⌛	Pending	0.00		Commvault	commvault90.testlab.com	commvault90	2018-04-26 11:00:07		
⌛	Pending	0.00		Commvault	commvault90.testlab.com	vcenter5	2018-04-25 21:00:09		
🔄	Running	37408.58		Commvault	commvault90.testlab.com	vm-sg07	2018-06-11 15:30:07	2018-06-11 15:30:07	
⌛	Pending	0.00		Commvault	commvault90	commvault90	2018-04-25 13:00:11		
⌛	Pending	0.00		Commvault	commvault90	commvault90	2018-04-25 14:00:05		
⌛	Pending	0.00		Commvault	commvault90	commvault90	2018-04-25 21:00:09		
⌛	Pending	0.00		Commvault	commvault90	commvault90	2018-04-26 11:00:07		
⌛	Pending	0.00		Commvault	commvault90	vcenter5	2018-04-25 21:00:09		
🔄	Running	37408.67		Commvault	commvault90	vm-sg07	2018-06-11 15:30:07	2018-06-11 15:30:07	
✖	Failed	0.00	2018-07-09 22:00:00	HPE Data Protector	tl-dp-ws04	tl-dp-uc02.testlab.com	2018-07-07 21:43:56	2018-07-07 21:43:56	2018-07-07
✖	Failed	0.00	2018-07-09 22:00:00	HPE Data Protector	tl-dp-ws04	tl-dp-uc02.testlab.com	2018-07-08 21:43:58	2018-07-08 21:43:58	2018-07-08
✔	Success	0.00	2018-07-09 22:00:00	HPE Data Protector	tl-dp-ws04	tl-dp-uc02.testlab.com	2018-07-07 21:01:10	2018-07-07 21:01:10	2018-07-07
✔	Success	0.00	2018-07-09 22:00:00	HPE Data Protector	tl-dp-ws04	tl-dp-uc02.testlab.com	2018-07-07 21:01:13	2018-07-07 21:01:13	2018-07-07
✔	Success	0.00	2018-07-09 22:00:00	HPE Data Protector	tl-dp-ws04	tl-dp-uc02.testlab.com	2018-07-08 21:01:13	2018-07-08 21:01:13	2018-07-08
		897.21							

🔍 ⬚ Byte count unit: MB ⌄   Duration unit: Minutes ⌄   View 1 - 85 of 85

Job Trends

Job Trends displays the daily failed, successful, and partially successful backup jobs, to highlight systemic backup problems in easily scanned matrices of backup servers, clients, and targets. Backup error trends become clear, allowing users to identify problems and take corrective action.

Health Check : Job Trends Select to view other Health Check reports ⌄

Last 31 days Backup Server Time

▶ Report criteria

Backup Server/Client/Ta	06/26	06/25	06/24	06/23	06/22	06/21	06/20	06/19	06/18	06/17	06/16	06/15
▶ arcserve16r		⊖	⊖	⊖	⊖			⊖	⊖	⊖	⊖	⊖
▶ dpmhost06						✔	⊖	⊖	⊖	⊖	⊖	⊖
▶ hpdp7-1							✖	✖	✖	✖	✖	✖
▶ tsm633			✖	✖	✖	✖	✖	✖	✖	✖	✖	
▶ vcenter5	✖	⊖	✖	✖	✖	⊖	✖	⊖	✖	✖	✖	✖
▶ vranger4							✖	✖	✖	✖	✖	✖

This report can be grouped up to four levels and is grouped by Backup Server/Client/Target by default. Select any circle icon to drill into the Details for that backup job:

Expanding the Status on job details exposes the messages generated by the backup job.

NBU Clients

Found in Policies. *NBU Clients* lists backup clients assigned to NetBackup Policies along with related client details.

NBU Configuration

Found in Policies. *NBU Configuration* displays details of NetBackup Policies. Select any policy to get further details on that policy. (Note: Policy Type includes an internal type identifier in parenthesis, not to be confused with quantity.)

NBU Lifecycle

Found in Policies. *NBU Lifecycle* displays the daily successful, partially successful, or failed results of NetBackup lifecycle activities; red or yellow status icons indicate that a job failed at one or all stages of the data protection lifecycle. By default, this report is grouped to four levels, by Backup Server/Policy/Client/Schedule.

NBU SLP Trends

Found in Policies. *NBU SLP Trends* shows the daily trend of successful, failed and partially successful results of NetBackup Lifecycle Policies in the form of a bar chart. Clicking on a bar will display the NBU Lifecycle report for the day clicked.

NBU SLP Configuration

Found in Policies. *NBU SLP Configuration* displays a list of NetBackup Storage Lifecycle policies along with a detail of each one when selected.

Orphaned Clients

Orphaned Clients is a report of those clients which are mined from a backup server, yet have no backup jobs mined for them:

Bocada Reporting Guide

▶ **Edit report criteria**

Client	Server	Backup Product	Backup Groups	Zones	Most Recent Backup Date Time (UTC)	Application Zones
exchange	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
exchange_exc	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
matts-pc	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
matts-pc.bocada.com	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
matts-pc_sql	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
vm-client10	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
vm-client13	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
vm-client13_sql	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
vm_client13_sql	tsm71-1	TSM	Unassigned	Unassigned		Unassigned
vm-client11.testlab.com	dpmhost06	Microsoft DPM		Unassigned	2012-08-23 05:24:27	Unassigned
vm-client12.testlab.com	dpmhost06	Microsoft DPM		Unassigned	2012-08-23 03:00:27	Unassigned
iscsi-sharevm	vranger4	vRanger	Unassigned	Unassigned		Unassigned
vm-move-jm_replica	vranger4	vRanger	Unassigned	Unassigned		Unassigned
vm-move-jm_replica-rename	vranger4	vRanger	Unassigned	Unassigned		Unassigned
vm-move1	vranger4	vRanger	Unassigned	Unassigned		Unassigned
vm-move2	vranger4	vRanger	Unassigned	Unassigned		Unassigned
vcenter5.testlab.com	hpdp7-1	HP Data Protector	Unassigned	Unassigned		Unassigned
new_datacenter	tsm633	TSM	Unassigned	Unassigned		Unassigned

For instance, clients may be registered with a backup server yet have no backup policy assigned, or may have been decommissioned yet not removed from the backup server.

Policy Configuration

Found in Policies. *Policy Configuration* displays backup configuration (policy) details for backup products supported with Bocada policy updates.

▶ **Report criteria**

Backup Server	Backup Product	Policy Name	Policy Type	Description	Active	Schedule	Client	Client Platform	Targets
hpdp7-1	HP Data Protector	CellMgr_Backup...	Filesystem		yes	full at 01:30	hpdp7-1.testlab....		\
hpdp7-1	HP Data Protector	CellMgr_Backup...	Filesystem		yes	incr 4 at 23:30	hpdp7-1.testlab....		\
hpdp7-1	HP Data Protector	vc5_dc3_VEAgent	VEAgent		yes	diff at 03:15	vcenter5.testlab...		/DataCenter3/I
hpdp7-1	HP Data Protector	vc5_dc3_VEAgent	VEAgent		yes	full at 06:15	vcenter5.testlab...		/DataCenter3/I
hpdp7-1	HP Data Protector	vm-client9_C-Pr...	Filesystem	Standard_Client_Backup-...	yes	full at 21:00	vm-client9.testl...		/ProgramData
hpdp7-1	HP Data Protector	vm-client9_C-Pr...	Filesystem	Standard_Client_Backup-...	yes	incr 1 at 21:00	vm-client9.testl...		/ProgramData
hpdp7-1	HP Data Protector	vm-client9_C-Pr...	Filesystem	Standard_Client_Backup-...	yes	incr at 21:00	vm-client9.testl...		/ProgramData

Spectrum Protect (TSM) and NetBackup policy information is contained in the Policies Module, but in separate reports for those products, and that information is not included in this report.

Policy Clients

Found in Policies. *Policy Clients* displays backup clients assigned to policies for backup products supported with Bocada policy updates. If a client is associated to more than one policy, that client will appear more than once. Spectrum Protect (TSM) and NetBackup policy information is contained in separate reports and is not included in this report.

Azure / DPM Recovery Point Status

Found in Backup Activity, these reports are specifically tailored to Microsoft Data Protection Manager (DPM). *DPM Recovery Point Status* displays current recovery point information for each target protected by DPM:

The report grouping is selected through criteria settings and may be grouped by server, client, recovery point type, protection group, or target. Select any status icon to drill into details for that backup.

In addition to the usual colored success indicators (green = successful, yellow = partial success, red = failed) the Recovery Point Status also includes a gray indicator for those recovery points which have expired. Note that any expired Recovery Points are treated as failures for roll-up purposes, so that the report will display Green + Gray = Yellow.

Also note that the Recovery Point Status changes as currently successful recovery points become expired.

Azure DPM Recovery Point Summary

Found in Backup Activity, these reports are specifically tailored to Microsoft Data Protection Manager (DPM). *DPM Recovery Point Summary* displays the status of DPM recovery points including whether each recovery point is expired. This report can be grouped up to four levels and is grouped by Server/Client/Target by default:

Restore Activity

Found in Backup Activity. *Restore Activity* lists restore attempts matching selected criteria over configurable periods of time:

	Status	Job Start Date	Error Count	Error Sets	Byte Count (GB)	Throughput (MB/s)	Server	Client
Problem Management : Restore Job Details								
✔	2015-07-12 23:02:21	0		0.001	0.38	arcserve16r	arcserve16r
✖	2015-07-12 22:23:46	2	Backup Group Error (9), Bac...	0.000	0	arcserve16r	arcserve16r
✔	2015-07-11 23:02:29	0		0.001	0.38	arcserve16r	arcserve16r
✖	2015-07-11 22:23:53	2	Backup Group Error (9), Bac...	0.000	0	arcserve16r	arcserve16r
✔	2015-07-10 23:02:36	0		0.001	0.38	arcserve16r	arcserve16r
✖	2015-07-10 22:23:40	2	Backup Group Error (9), Bac...	0.000	0	arcserve16r	arcserve16r

Restore Failures

Found in Backup Failures. *Restore Failures* is a subset of Restore Activity that displays only failed and partially successful restores:

Status	Job Start Date	Error Count	Error Sets	Byte Count (GB)	Throughput (MB/s)	Server	Client
✖	2015-07-12 22:23:46	2	Backup Group Error (9), Bac...	0.000	0	arcserve16r	arcserve16r
✖	2015-07-11 22:23:53	2	Backup Group Error (9), Bac...	0.000	0	arcserve16r	arcserve16r
✖	2015-07-10 22:23:40	2	Backup Group Error (9), Bac...	0.000	0	arcserve16r	arcserve16r

Restore Health

Found in Backup Activity. *Restore Health* shows the percent of restores that are successful, partially successful and failure in the form of a pie chart.
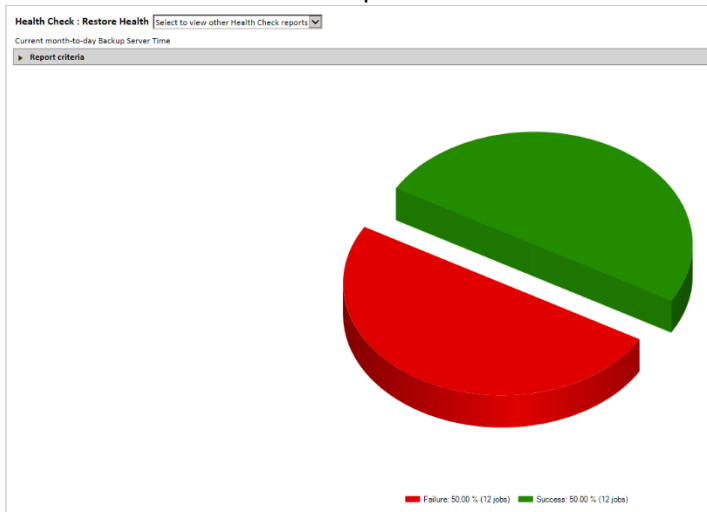
Clicking on a section of the pie will take users to the related granular job details in Restore Activity.

Saved Reports

Found under Home. *Saved Reports* is a central interface for and running and managing reports with previously saved criteria.

Type	Style	Name	Global Default	My Default	Accessibility	Associated Alerts	Updated	Created By
Admin SQL Queries	Tabular	SQL Queries Template	Yes		Everyone	0	2015-05-27 23:15:50	Default Template
Backup Activity	Tabular	Backup Job Activity Template	Yes		Everyone	0	2015-05-27 23:15:49	Default Template
Backup Duration Trends	Bar	Backup Duration Trends <priva...	Yes		Private	0	2015-06-08 21:41:35	BOCADA\stefanh
Backup Duration Trends	Bar	Backup Duration Trends Templ...			Everyone	0	2015-05-27 23:15:50	Default Template
Backup Error Trends	Bar	Backup Error Trends Template	Yes		Everyone	0	2015-05-27 23:15:50	Default Template
Backup Failures	Tabular	Backup Job Failures Template	Yes		Everyone	1	2015-05-27 23:15:49	Default Template
Backup Health	Pie	Backup Health Template	Yes		Everyone	0	2015-05-27 23:15:48	Default Template
Backup Health Trends	Bar	Backup Health Trends Template	Yes		Everyone	0	2015-05-27 23:15:48	Default Template
Backup Trends	Bar	Backup Trends Template	Yes		Everyone	0	2015-05-27 23:15:50	Default Template
Custom SQL	Tabular	CustomReport_001			Everyone	0	2015-06-03 15:20:45	BOCADA\stefanh
Custom SQL	Tabular	CustomReport_002			Everyone	0	2015-06-03 18:06:57	BOCADA\stefanh
Custom SQL	Tabular	Executive Summary	Yes		Everyone	0	2015-06-26 16:12:00	BOCADA\stefanh
Custom SQL	Tabular	Executive Summary This Month			Everyone	0	2015-06-26 16:10:42	BOCADA\stefanh
Custom SQL	Tabular	Executive Summary This week			Everyone	0	2015-06-26 16:14:18	BOCADA\stefanh
Custom SQL	Tabular	Last Success			Everyone	0	2015-06-03 19:26:58	BOCADA\stefanh
Custom SQL	Tabular	Last Success (Criteria)			Everyone	0	2015-06-03 19:49:42	BOCADA\stefanh
Executive Summary	Tabular	Executive Summary Report	Yes		Everyone	0	2015-05-27 23:15:51	Default Template
Executive Summary	Tabular	Executive Summary This Month			Everyone	0	2015-06-26 16:13:16	BOCADA\stefanh
Executive Summary	Tabular	Executive Summary This Week			Everyone	0	2015-06-26 16:19:57	BOCADA\stefanh
Job Trends	Tabular	Job Trends	Yes	Yes	Everyone	0	2015-06-08 19:49:10	BOCADA\stefanh
Largest Clients	Bar	Largest Clients Template	Yes		Everyone	0	2015-05-27 23:15:49	Default Template

This view also provides the capability to create, modify and delete Custom SQL reports.

To create a new report, select the New Custom Report icon from the right Action panel. This will launch an Edit wizard to allow you to insert custom SQL code for this report.

However, you cannot change which is your default report in this view, only see which your default for each report type. To change your default report of any type, go to that report type and follow the instructions for saving a report elsewhere in this document.

Reports that are saved can also be accessed via the folder icon from each report.

Schedules

Found in Configuration > Advanced Config. *Schedules* lists the schedules that have been established for various events to occur at set times. This view can be used to manage existing schedules, add new schedules of various types, or remove unneeded schedules. Schedules can be sorted by Enabled, Name, Type (default), Description, Schedule ID or Time Zone.

Operations : Schedules

Enabled	Name	Type	Description	Time Zone
Yes	Alerts	Alert Calculation	Alerting schedule	GMT
Yes	1AM_Daily	Data Collection / Reports	Each day at 1:01	(GMT-08:00) Pacific Time (US & Ca...
Yes	3AM_Daily	Data Collection / Reports	Each day at 3:01	(GMT-08:00) Pacific Time (US & Ca...
Yes	6&6_Daily	Data Collection / Reports	Each day at 01 past 06,18	(GMT-08:00) Pacific Time (US & Ca...
Yes	Every 20 min.	Data Collection / Reports	Every 20 minutes	(GMT-08:00) Pacific Time (US & Ca...
Yes	Week-End	Data Collection / Reports	Su at 0:01	(GMT-08:00) Pacific Time (US & Ca...
Yes	Policy Changes 4:20	Policy Changes	Each day at 20 past 04,16	(GMT-08:00) Pacific Time (US & Ca...
Yes	Rules Incremental	Rules Incremental	Each day at 12 past 01,05,09,14,18,22	(GMT-08:00) Pacific Time (US & Ca...
No	SLA Compliance Validation	SLA Calcuation	Disabled	GMT

To add a Data Collection / Reports schedule, select the Add action from the right Action Panel. The Add Schedule wizard will appear:

Give your schedule a Name, Time Zone, and select the Frequency. Options appear depending upon the frequency:

- **Every N minutes:** Run every 5, 10, 15, 20, 30, 45, 60, 90, 120, 180, 240 minutes.
- **Daily:** At these times (select hours to initiate), Run at (select minutes after the hour(s) selected).
- **Weekly:** On these days (select days of the week to initiate), Run at (select hours and minutes on the day(s) selected).
- **Monthly:** On these days (select Nth day of the month or the Nth Day of week (e.g., First Saturday of a month)), Run at (select hours and minutes on the day(s) selected).

Bocada Reporting Guide

Edit Schedule: Select any schedule, then select the Edit action from the right Action Panel. Options as Add Schedule, above.

Delete Schedule: Select any schedule, then select the Delete action from the right Action Panel. **Warning:** Any activity that was scheduled according to a Schedule that has been deleted will revert to Unscheduled.

Note: The Schedules report also includes the Action "Pause / resume all schedules".

Scheduled Actions

Found in Configuration > Advanced Config. *Scheduled Actions* lists the schedules that have been established for various events to occur at set times. This view can be used to manage existing schedules, add new schedules of various types, or remove unneeded schedules.

Scheduled Report Management

Found in Operations. *Scheduled Report Management* lists the configurations of reports that have been associated with a schedule. This view can be used to view and manage which reports are being emailed (and to whom) and / or exported (and to where), and in what format the report is sent.

This report displays and allows for editing of scheduled report configuration properties, including:

- Status of most recent attempt and last error if any.
- Configuration Name.
- Report Type.
- Report Name.
- Types of files for export, if any.
- If email is configured and to which addresses.
- Export location.
- Schedule name and description.
- User that configured the scheduled report.

SLA Config

Found in SLA. *SLA Config* allows Administrators to establish and edit SLA Profiles. Note that two rows may appear for the same profile, one for each frequency you define:

SLA : Manage SLAs | Select to view other SLA reports ▾

SLA Profile Name	Description	Type	Level	Week Start
Daily SLA	At least one successful backup daily	Daily	Any	
Default SLA	Default SLA	Per Active Day	Full	
Default SLA	Default SLA	Per Active Day	Any	
New SLA - at least o...	At least one full backup must be successful	Monthly	Full	
New SLA 7	7 day SLA	Weekly	Any	Sunday

To configure a new SLA profile, select the Add action from the right Action panel. This will open the Add SLA Profile wizard:

On the Name tab, enter a Name (required) and Description for this profile, then click *Next*.

On the Errors tab, designate any errors which are to be ignored under this profile.
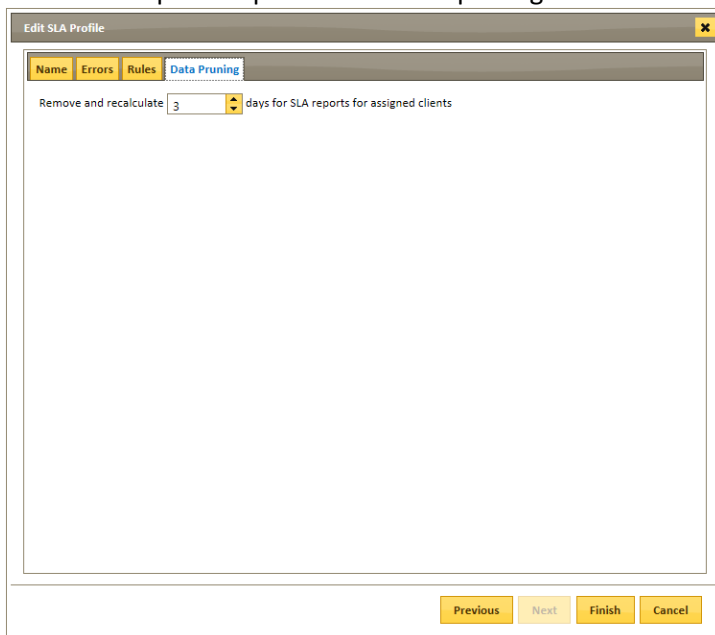
On the Rules tab, select the criteria for compliance with the SLA:
- Full or Any Backup
- Per Active Day (per day a backup is attempted), Daily (designate specific days), Weekly (designate specific days), or Monthly
- Backup Window (designate specific backup times). For instance, you can create a profile to monitor clients that are expected to successfully complete at least one Full Backup each Sunday between Midnight and 2 a.m.

On the Data Pruning tab, select the number of days to remove and recalculate clients. This should be set for longer than the longest backup, i.e. at least 7 days for a weekly requirement, or at least 31 days for a monthly requirement. If set for less than the SLA duration, some clients with backup attempts may appear as "No Backup Attempts Yet" in SLA reporting.

Once configured here, SLA Profiles may be assigned to clients, prior to running SLA Compliance Reports.

Note: The schedule *SLA Compliance Validation* is enabled by default and set to run daily at 0:00.

For further information on SLA monitoring, please see the *Bocada Administration Guide*.

SLA Impacts

Found in SLA. *SLA Impacts* provides an overview of those jobs which are affecting SLAs as defined in *SLA Config*. This report lists each client's non-compliant asset that the pre-defined SLA the client is associated with, and the reason the asset is not meeting compliance.

SLA Metrics

Found in SLA. *SLA Metrics* displays a report of SLAs as defined in *SLA Config*, and how well those SLAs are fulfilled.

SLA Trends

Found in SLA. *SLA Trends* displays the trend over time of SLAs that are met or not met in the form of a bar chart.

Summary (Dashboard)

Under Home. *Summary* provides an overview of the backup environment by displaying up to four graphical reports in one window.

To customize the reports in your Summary, select the Customize icon from the right Action panel. This will launch the Customize wizard. See [Customize](#) for details.

Spectrum Protect Filespaces

Found in Storage. The *Spectrum Protect Filespaces* report is a tabular view of the space protected on Spectrum Protect (TSM) client servers, by node, filespace name, and storage pool name, according to Spectrum Protect (TSM) Filespace queries. Includes query results for capacity, percent utilized, and Physical vs. Logical space.

Storage : Spectrum Protect Filespaces Select to view other Storage reports ▼

Last 31 days Default ((GMT-08:00) Pacific Time (US & Canada); Tijuana)

▶ Report criteria   (Drag column here to

Server ↕	Client	Node Name	Filespace Name	FSID	Filespace Type	Capacity (GB)	Pct Util	Backup Start	Backup End	Stgpool Name	File Count	Physical (GB)	Logical (GB)	Reporting (GB)	Last
tsm71-1	vm-client13	VM-CLIENT13	\\vm-client13\c$	1	NTFS	39.900	62.9	2014-05-12...		DD_DEDUPECOPY	4455	0.000	1.056	1.056	
tsm71-1	vm-client13	VM-CLIENT13	\\vm-client13\c$	1	NTFS	39.900	62.9	2014-05-12...		DEDUPECOPY	4455	0.000	1.056	1.056	
tsm71-1	vm-client13	VM-CLIENT13	\\vm-client13\c$	1	NTFS	39.900	62.9	2014-05-12...		BACKUPPOOL	4455	1.062	1.056	1.056	
tsm71-1	matts-pc.b...	MATTS-PC.B...	\\matts-pc\f$	1	NTFS	488.279	60.96			DD_DEDUPECOPY	20	0.000	0.001	0.001	
tsm71-1	matts-pc.b...	MATTS-PC.B...	\\matts-pc\f$	1	NTFS	488.279	60.96			DEDUPECOPY	20	0.000	0.001	0.001	
tsm71-1	matts-pc.b...	MATTS-PC.B...	\\matts-pc\f$	1	NTFS	488.279	60.96			BACKUPPOOL	20	0.001	0.001	0.001	
tsm71-1	matts-pc_sql	MATTS-PC_S...	MATTS-PC\SqlSe...	1	VSS	0.000	0	2014-06-05...	2014-06-05...	FCM_SPSQL	5	0.015	0.015	0.015	
tsm71-1	vm-client13...	VM-CLIENT1...	VM-CLIENT13\S...	1	VSS	0.000	0	2014-08-05...	2014-08-05...	FCM_SPSQL	5	0.003	0.003	0.003	
tsm71-1	vm-client13...	VM-CLIENT1...	VM-CLIENT13\S...	2	VSS	0.000	0	2014-06-24...	2014-06-24...	FCM_SPSQL	5	0.005	0.005	0.005	
tsm71-1	vm-client13...	VM-CLIENT1...	VM-CLIENT13\S...	3	VSS	0.000	0	2014-06-25...	2014-06-25...	FCM_SPSQL	5	0.010	0.010	0.010	
tsm71-1	exchange_e...	EXCHANGE_...	Testlab.com\MA...	1	API:ExcData	0.000	0				0	0.000	0.000	0.000	
tsm71-1	exchange_e...	EXCHANGE_...	EXCHANGE\Micr...	2	VSS	0.000	0	2015-03-05...	2015-03-05...	FCM_SPEXC	15	0.393	0.393	0.393	
tsm71-1	jane-pc	JANE-PC	\\jane-pc\e$	1	NTFS	1863.015	36.33			DD_PRIMSTGP1	12	0.001	0.001	0.001	
tsm71-1	jane-pc	JANE-PC	\\jane-pc\c$	2	NTFS	698.635	34.22				0	0.000	0.000	0.000	
tsm71-1	jane-pc.boc...	JANE-PC.BO...	\\jane-pc\c$	1	NTFS	1863.015	40.98			DEDUPECOPY	5	0.000	0.001	0.001	
tsm71-1	jane-pc.boc...	JANE-PC.BO...	\\jane-pc\e$	1	NTFS	1863.015	40.98			DD_PRIMSTGP2	19	0.001	0.001	0.001	
tsm71-1	paulf-pc.bo...	PAULF-PC.B...	\\paul-pc\c$	2	NTFS	219.731	94.36	2017-08-02...		DD_DEDUPECOPY	11948	0.000	0.009	0.009	
tsm71-1	paulf-pc.bo...	PAULF-PC.B...	\\paul-pc\c$	2	NTFS	219.731	94.36	2017-08-02...		DEDUPECOPY	43645	0.000	3.606	3.606	
tsm71-1	paulf-pc.bo...	PAULF-PC.B...	\\paul-pc\c$	2	NTFS	219.731	94.36	2017-08-02...		DD_PRIMSTGP2	29751	0.088	0.022	0.022	
tsm71-1	paulf-pc.bo...	PAULF-PC.B...	\\paul-pc\c$	2	NTFS	219.731	94.36	2017-08-02...		BACKUPPOOL	13894	3.585	3.585	3.585	
tsm71-1	paulf-pc.bo...	PAULF-PC.B...	\\paul-pc\d$	3	NTFS	15.736	88.9	2017-07-28...		DD_DEDUPECOPY	21	0.000	0.001	0.001	
tsm71-1	paulf-pc.bo...	PAULF-PC.B...	\\paul-pc\d$	3	NTFS	15.736	88.9	2017-07-28...		DEDUPECOPY	21	0.000	0.001	0.001	
tsm71-1	paulf-pc.bo...	PAULF-PC.B...	\\paul-pc\d$	3	NTFS	15.736	88.9	2017-07-28...		DD_PRIMSTGP2	21	0.001	0.001	0.001	
tsm71-1	paulf-pc.bo...	PAULF-PC.B...	\\paul-pc\e$	4	FAT32	1.992	3.05	2017-07-28...			0	0.000	0.000	0.000	
tsm71-1	jane-pc.boc...	JANE-PC.BO...	\\jane-pc\c$	2	NTFS	698.635	34.85	2017-08-03...			0	0.000	0.000	0.000	
tsm71-1	matts-pc	MATTS-PC	\\matt-pc\c$	1	NTFS	443.133	73.15			DEDUPECOPY	10	0.000	0.001	0.001	
tsm71-1	matts-pc	MATTS-PC	\\matt-pc\c$	1	NTFS	443.133	73.15			BACKUPPOOL	10	0.001	0.001	0.001	

Spectrum Protect Clients

Found in Policies. *Spectrum Protect Clients* lists backup clients assigned to Spectrum Protect policies, along with related client details. This report uses the TSM_policy_nodes table and the most recent snapshot per Spectrum Protect (TSM) server to provide data.

Policies : TSM Clients Select to view other Policies reports ▼

▶ Report criteria

Backup Server	Node Name	VM Name	Domain Name	Backup Groups	Zones	SLA Profile	Node Type	Platform Name	Opera
tsm71-1	EXCHANGE		STANDARD	Unassigned	Unassigned	Unassigned	CLIENT	WinNT	6.01
tsm71-1	EXCHANGE_EXC		FCM_PDEXC	Unassigned	Unassigned	Unassigned	CLIENT	TDP MSExchg	6.01
tsm71-1	MATTS-PC		STANDARD	Unassigned	Unassigned	Unassigned	CLIENT	WinNT	6.01
tsm71-1	MATTS-PC.BOCADA....		STANDARD	Unassigned	Unassigned	Unassigned	CLIENT	WinNT	6.01
tsm71-1	MATTS-PC_SQL		FCM_PDSQL	Unassigned	Unassigned	Unassigned	CLIENT	TDP MSSQL Win...	6.01
tsm71-1	VM-CLIENT10		STANDARD	Unassigned	Unassigned	Unassigned	CLIENT		
tsm71-1	VM-CLIENT13		STANDARD	Unassigned	Unassigned	Unassigned	CLIENT	WinNT	6.01
tsm71-1	VM-CLIENT13_SQL		FCM_PDSQL	Unassigned	Unassigned	Unassigned	CLIENT	TDP MSSQL Win...	6.01
tsm71-1	VM_CLIENT13_SQL		FCM_PDSQL	Unassigned	Unassigned	Unassigned	CLIENT		

       Bocada Reporting Guide

Spectrum Protect Configuration

Found in Policies. *Spectrum Protect Configuration* displays the Spectrum Protect (TSM) policy configurations of Spectrum Protect servers: What policies are configured, policy domain, domain retentions, and domain archive values, as well as other Spectrum Protect policy-related information.

Policies : TSM Current Policy Configuration Select to view other Policies reports ▽

▶ **Report criteria**

Client Name	VM Name	Backup Server	Domain Name	Domain Description	Backup Retention	Archive Retention
EXCHANGE_EXC		tsm71-1	FCM_PDEXC		30	365
EXCHANGE_EXC		tsm71-1	FCM_PDEXC		30	365
MATTS-PC_SQL		tsm71-1	FCM_PDSQL		30	365
MATTS-PC_SQL		tsm71-1	FCM_PDSQL		30	365
VM-CLIENT13_S...		tsm71-1	FCM_PDSQL		30	365
VM-CLIENT13_S...		tsm71-1	FCM_PDSQL		30	365
VM_CLIENT13_S...		tsm71-1	FCM_PDSQL		30	365
VM_CLIENT13_S...		tsm71-1	FCM_PDSQL		30	365
EXCHANGE		tsm71-1	STANDARD	Installed default policy domain.	30	365
EXCHANGE		tsm71-1	STANDARD	Installed default policy domain.	30	365
MATTS-PC		tsm71-1	STANDARD	Installed default policy domain.	30	365
MATTS-PC		tsm71-1	STANDARD	Installed default policy domain.	30	365
MATTS-PC.BOCA...		tsm71-1	STANDARD	Installed default policy domain.	30	365
MATTS-PC.BOCA...		tsm71-1	STANDARD	Installed default policy domain.	30	365
VM-CLIENT10		tsm71-1	STANDARD	Installed default policy domain.	30	365
VM-CLIENT10		tsm71-1	STANDARD	Installed default policy domain.	30	365
VM-CLIENT13		tsm71-1	STANDARD	Installed default policy domain.	30	365
VM-CLIENT13		tsm71-1	STANDARD	Installed default policy domain.	30	365

VM Protection Analysis

VM Protection Analysis provides an overview of the VMs used and shows data protection status for each, with indication if a VM is protected by snapshots, backup applications, or is unprotected. When a client is highlighted in the upper panel, the lower panel will show all snapshots and /or backups that are being run against the client within the date range selected in report criteria.

Health Check : VM Protection Analysis | Select to view other Health Check reports ▾

Last 7 days

▶ **Report criteria**

VM Name	Backup Client	Backup Product	Backup Server	Backup Groups	Zones	Last Backup Success	Snapshot Count	VM Files (GB)
bex2015_restore	Unassigned	Unassigned	Unassigned	Unassigned	Unassigned		1	40.001
netapp2	Unassigned	Unassigned	Unassigned	Unassigned	Unassigned		1	61.854
vm-Fedora00	Unassigned	Unassigned	Unassigned	Unassigned	Unassigned		0	24.177
vm-Fedora00_restored	Unassigned	Unassigned	Unassigned	Unassigned	Unassigned		0	24.046
vm-new01	Unassigned	Unassigned	Unassigned	Unassigned	Unassigned		0	0.000
vrangerrep3	Unassigned	Unassigned	Unassigned	Unassigned	Unassigned		31	126.636

| #VMs: 6 | | | | | | | 33 | 276.715 |

🔍 🗗 Byte count unit: GB ▾

VM Snapshot Details

Level	Date Created	Server	Product	VM Name	Backup Client	Snapshot Name	Snapshot Id	Parent Id
Snapshot	2015-06-25 09:56:21	vcenter5	vCenter	bex2015_restore	Not applicable	SYMC-FULL 25-06-2015 0...	snapshot-34823	

Note: The Bocada VM Protection Analysis and Licensing reports reference Unassigned VMs. Unassigned VMs are Virtual Machines for which Bocada does not have a record for being backed up as a full Virtual Machine backup.

VM Protection Analysis provides virtual reporting for Backup Exec, CommVault, Data Protector, IBM Spectrum Protect (TSM), NetBackup, and Veeam. VMs that are backed up by traditional physical machine methods will be reported in non-virtual reports and as non-virtual backup clients.

Support

Bocada Customer Support

E-mail: support@bocada.com

Phone: 425-898-2400

Both new and existing customers, who have purchased annual support and maintenance, have full access to post-installation support:
- Online knowledge base and problem ticketing system
- E-mail and toll-free telephone assistance Monday through Friday, 6 a.m. to 6 p.m. Pacific, US Time (except holidays)
- Product documentation and documentation updates
- Program error fixes, hotfixes, and service packs
- Product upgrades for the Bocada application

To access the support portal, click on "Customer Support Portal" from the following URL
https://www.bocada.com/product-support/

Bocada Professional Services

Bocada offers Professional Services assistance for installation and continuing support of our products. Bocada solutions are built with an open architecture that allows for custom reporting and integration with third party solutions, please consult with our sales or support team to determine if your organization would benefit from Bocada Professional Services.

- Backup Assessments (delivered by Value Added Partners)
- Deployment Planning and Guided Assistance
- Migrations
- Training
- Custom Report Design, Review and Delivery
- Installation and Configuration

Appendix A: Reporting Module Access

X = can perform action
P = can perform action on universal and Private Reports

Reports	Action	Administrator	Operator	Standard User
Summary	Refresh	x	x	x
	Export	x	x	x
	Send by Email	x	x	
	Customize	x	P	
Saved Reports	Refresh	x	x	x
	Run Report	x	x	P
	Save Default View	x		
	Delete	x	P	P
	Re-Assign Saved Report Owner	x		
	Edit Criteria	x	P	P
Executive Summary, Annotations, Backup Alert Activity, Chargeback Job Trends, Backup Health, Backup Health Trends, Backup Trends, Backup Trends Details, Backup Duration Trends, Restore Health, Orphaned Clients, Azure/DPM Recovery Point Summary, Azure/DPM Recovery Point Status, Consecutive Failures, Failure Trends, Backup Error Trends	Run Report	x	x	x
	Open	x	x	x
	Save Report	x	x	x
	Export	x	x	x
	Send by Email	x	x	
	Schedule Report	x	x	
Job Activity, Restore Activity, Backup Failures, Restore Failures	Run Report	x	x	x
	Open	x	x	x
	Save Report	x	x	x
	Export	x	x	x
	Send by Email	x	x	
	Schedule Report	x	x	
	Add Annotation	x	x	
	Find Annotations	x	x	x
	SLA Impacts	x	x	x
	Add Alert	x	x	

Storage

Reports	Action	Administrator	Operator	Standard User
Storage Trends, Storage Servers, Storage Clients, Media Usage Trends, Most Used Volumes, Data Domain Capacity	Run Report	x	x	x
	Open	x	x	x
	Save Report	x	x	x
	Export	x	x	x
	Send by Email	x	x	
	Schedule Report	x	x	

vCenter

Reports	Action	Administrator	Operator	Standard User
VM Protection Analysis	Run Report	x	x	x
	Open	x	x	x
	Save Report	x	x	x
	Export	x	x	x
	Send by Email	x	x	
	Schedule Report	x	x	

Policies

Reports	Action	Administrator	Operator	Standard User
Policy Configuration, Policy Clients, Spectrum Protect Configuration, Spectrum Protect Clients, NBU Configuration, NBU Clients, NBU SLP Configuration, NBU SLP (Lifecycle), NBU SLP Trends, Change Analysis	Run Report	x	x	x
	Open	x	x	x
	Save Report	x	x	x
	Export	x	x	x
	Send by Email	x	x	
	Schedule Report	x	x	

SLA

Reports	Action	Administrator	Operator	Standard User
SLA Trends, SLA Metrics, SLA Impacts	Run Report	x	x	x
	Open	x	x	x
	Save Report	x	x	x
	Export	x	x	x
	Send by Email	x	x	
	Schedule Report	x	x	
SLA Configuration	Add	x		
	Edit	x		
	Archive	x		
	Assign Clients	x		
	Unassign Clients	x		

Operations

Reports	Action	Administrator	Operator	Standard User
Data Collection	Refresh	x	x	
	Open	x	x	
	Save Report	x	x	
	Run Manual Updates	x	x	
	Cancel Updates	x	x	
	Edit Server	x		
	Export	x	x	
	Send by Email	x	x	
	Schedule Report	x	x	
Backup Servers	Refresh	x	x	
	Add	x		
	Delete	x		
	Edit Server	x		
	Export	x	x	
	Open	x	x	
	Save Report	x	x	
	Export	x	x	
	Send by Email	x	x	
	Schedule Report	x	x	
Backup Clients	Run Report	x	x	
	Open	x	x	
	Save Report	x	x	
	Export	x	x	
	Send by Email	x	x	
	Schedule Report	x	x	
	Client Properties	x	x	
	Ignore Client	x		
	Run Rules	x		
Data Collection Alert Activity, Data Collection Servers, Backup Server Activity,	Run Report	x	x	
	Open	x	x	
	Save Report	x	x	
	Export	x	x	
	Send by Email	x	x	
	Schedule Report	x	x	

Reports	Action	Administrator	Operator	Standard User
Schedules	Run Report	x	x	
	Open	x	x	
	Save Report	x	x	
	Export	x	x	
	Send by Email	x	x	
	Schedule Report	x	x	
	Add	x	x	
	Delete	x	x	
	Edit	x	x	
Scheduled Actions	Refresh	x	x	
	Open	x	x	
	Save Report	x	x	
	Cancel Action	x	x	
	Export	x	x	
	Send by Email	x	x	
	Schedule Report	x	x	
Scheduled Report Management	Run Report	x	x	
	Open	x	x	
	Save Report	x	x	
	Export	x	x	
	Edit Configuration	x	x	
	Delete	x	x	
Alert Configuration	Add	x	x	
	Delete	x	x	
	Edit	x	x	
	Export	x	x	
	Send by Email	x	x	
	Schedule Report	x	x	

Administration

All reports and actions in this module are accessible to Administrators only and will not be visible to Operators or Standard Users.

Reports	Action	Administrator	Operator	Standard User
All Reports	All Actions	x		