



Bocada VAST Plugin Configuration Guide

Contents

1	VAST Configuration Checklist	2
	Note on Initial Collections	2
2	Supported Collection Types	2
3	Data Sources.....	2
4	Requirements.....	2
5	Bocada Setup.....	3
5.1	Backup & Storage Properties	3
6	Bocada VAST Reporting Notes	4
6.1	VAST Replication Reports.....	4
6.2	VAST Storage Reports	4
6.3	VAST Utilization Report.....	5
6.4	VAST Utilization Tabular Report.....	5
6.5	VAST Utilization Trends Report.....	6
6.6	VAST Reduction Trends Report.....	7
6.7	VAST Reduction Tabular Report.....	8
7	Technical Support.....	9

1 VAST Configuration Checklist

While detailed steps are included below, this is an overview of the steps to configure VAST collections on your Bocada Data Collection Server (DCS):

- ☐ Verify required TCP ports have been opened.
- ☐ Obtain a read-only user for VAST.

Note on Initial Collections

All or most VAST data protection activity is seen under the backup server backing up to that VAST, and the VAST itself may not perform backups of its own. Initial collections from your VAST may not appear to be collecting backup jobs. If the VAST does have backup jobs, then those will be replication jobs. Similarly, Storage collections will not be immediately reflected in the *VAST Capacity* line chart until at least two days' Storage collections in order to render a line. Storage collections may be verified, however, by running a *Storage Servers* report filtered on VAST as the product.

2 Supported Collection Types

The Bocada VAST plugin supports the following collection types:

Collection Type	Supported	Description
Backup	✓	Collects transactional details about replication jobs. Example metrics include, start times, durations, bytes, files, errors etc.
Storage	✓	Collects point-in-time inventory information. Example metrics include, total recoverable gigabytes (storage), media volume count, media volume status, etc.
Policy		Collects and stores information on policy attributes, schedules, storage units, storage groups, storage lifecycle policies and clients.

3 Data Sources

The Bocada plugin for VAST Plugin connects to the VAST appliance REST API.

4 Requirements

The Bocada Data Collection Server must be able to connect to the VAST Server on the port(s) listed in the table below.

Network Ports

Service	Default Port	Note
HTTPS	443	REST API connection through HTTPS to <a href="https://<VAST_servername>">https://<VAST_servername>

5 Bocada Setup

Adding a VAST to Bocada begins the same as setup of any backup server. Go to the Servers view in Bocada, and click the Add Server icon.

5.1 Backup & Storage Properties

Backup Server Properties determine how the plugin will interface with the VAST and are managed through the Backup Servers view.

Add Servers

Servers | Schedules | Settings | Updates

Server names:

Product for these servers:

Data Collection Server:

Configure Server Properties:

Username:

Password:

Time Zone:

[Show Advanced Properties](#)

TEST CONNECTION Testing the connection will add servers and save the servers' properties

CANCEL **PREVIOUS** **NEXT** **FINISH**

Property	Description
User Name	Enter a VAST user with at least Read permissions. (Standard credentials will work; Administrator access is not required).
User Password	Enter the password for the VAST user above.
Time Zone	Enter the Time Zone used by the VAST.

Table 1: Home Module

6 Bocada VAST Reporting Notes

Byte counts: The Bocada reports all show bytes in binary GB (1024 based) aka GiB while the VAST UI shows in GB (1000 based).

Replication Jobs and local backup: Most activity to a VAST will appear under the backup product which is performing the backups to the VAST. You will only see Replication jobs done from one VAST to another VAST under each VAST server or S3 in the reports.

6.1 VAST Replication Reports

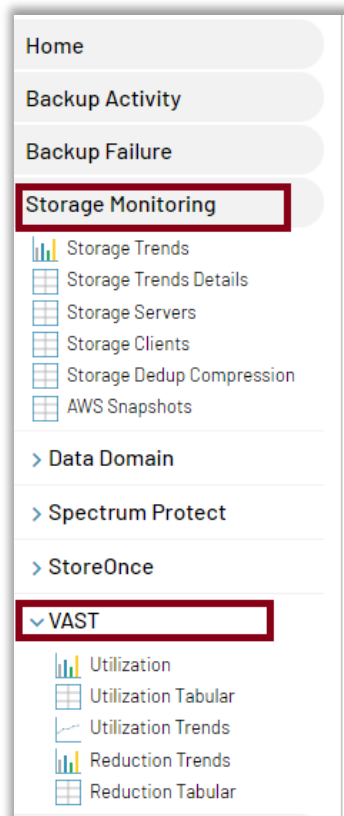
If you are replicating data between VASTs, then you will see those replication jobs reported in the usual Bocada backup job reports. Those reports, such as Job Trends and Job Activity reports, are described in the Bocada Reporting Guide. You will see jobs reported for both the source VAST and the destination VAST. Job types include:

- Path Replication Source
- Path Replication Destination

The byte count for replications jobs includes the physical space bytes that is transferred.

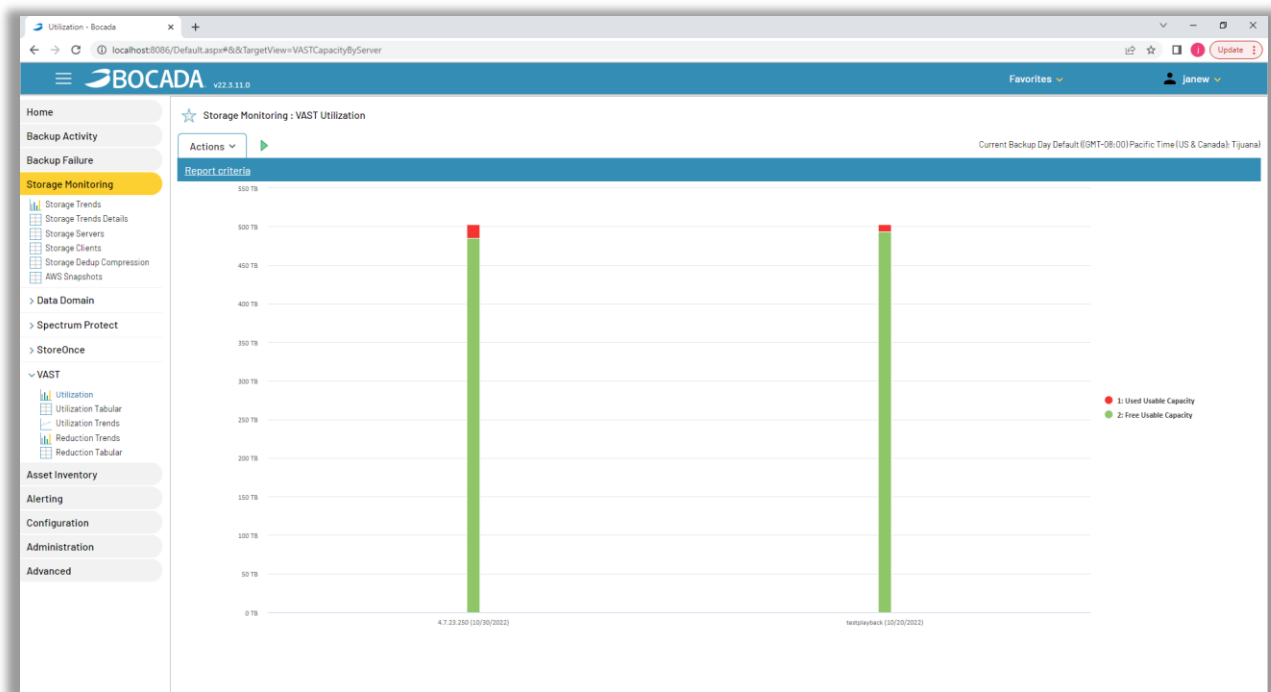
6.2 VAST Storage Reports

Storage data collection in Bocada is based on a snapshot of the VAST when the data was collected. For detailed comparisons of the values in VAST with Bocada, you may wish to do a fresh data collection. There are five dedicated VAST storage reports in Bocada:



6.3 VAST Utilization Report

The VAST Utilization Trends report shows bytes in binary GB (1024 based) aka GiB.



6.4 VAST Utilization Tabular Report

The VAST Utilization Trends report shows bytes in binary GB (1024 based) aka GiB.

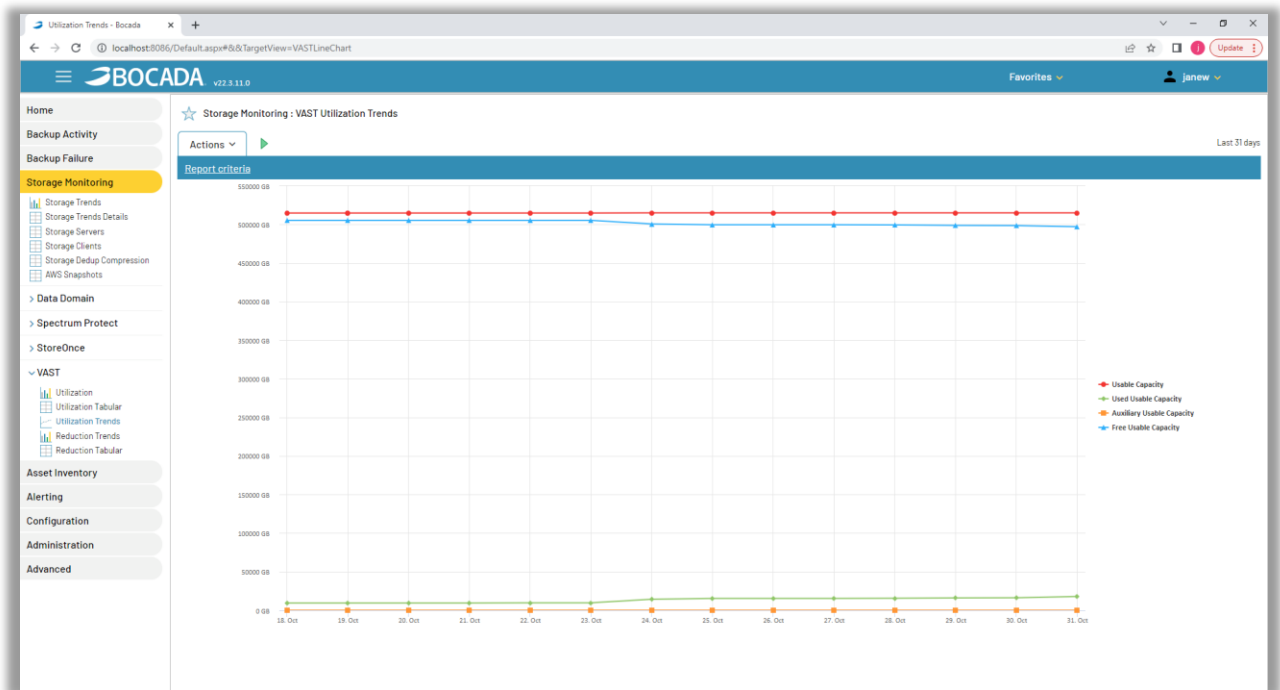
The screenshot displays the 'Storage Monitoring : VAST Utilization Details' report. The table shows utilization details for two appliances. The columns are: Appliance, Pct. Used, Pct. Free, Pct. Auxilia, Capacity (TB), Used (TB), Free (TB), and Auxiliary (TB). The data is as follows:

Appliance	Pct. Used	Pct. Free	Pct. Auxilia	Capacity (TB)	Used (TB)	Free (TB)	Auxiliary (TB)
4.7.23.250 (10/30/2022)	3.48	96.52	0	502.8709	17.5003	485.3706	0.0000
testplayback (10/20/2022)	1.86	98.14	0	502.7900	9.3556	493.4344	0.0000

At the bottom of the table, there is a summary row showing the total values: 2.67, 97.33, 0, 1005.6610, 26.8560, 978.8050, and 0.0000. The byte count unit is set to TB. The page number is 1 of 2.

6.5 VAST Utilization Trends Report

The VAST Utilization Trends report shows bytes in binary GB (1024 based) aka GiB.



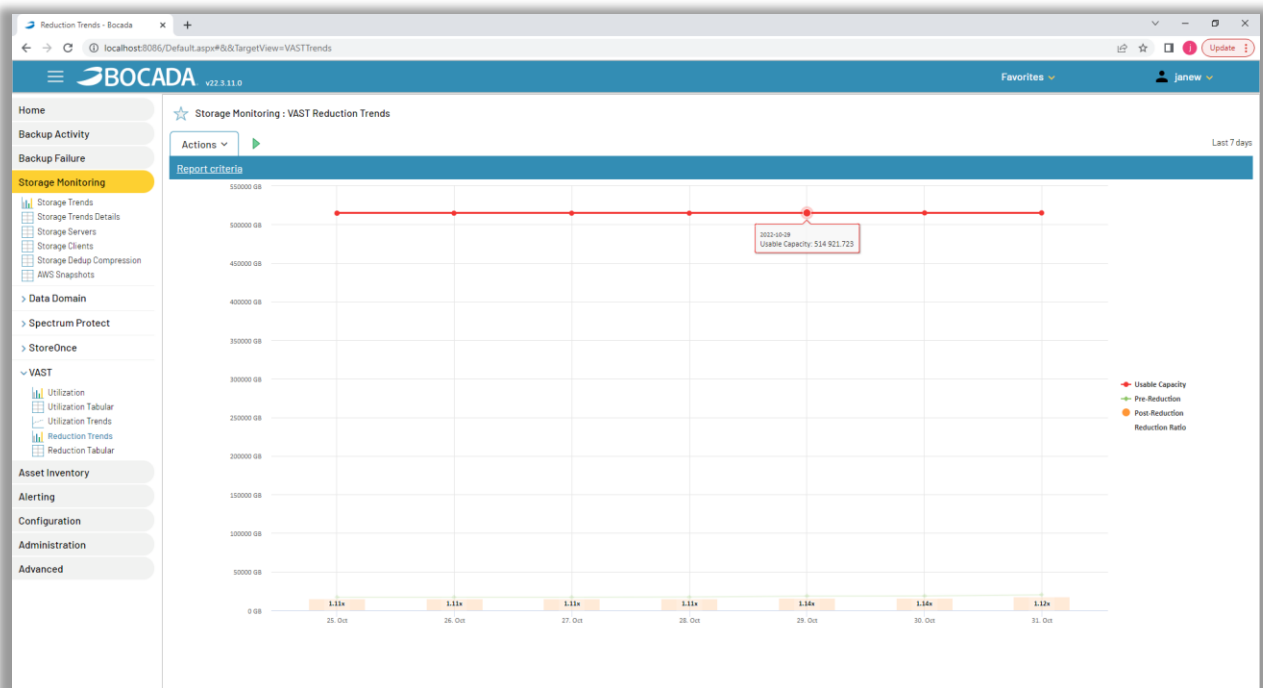
6.6 VAST Reduction Trends Report

The VAST Path Trends report shows Path data bytes in binary GB (1024 based) aka GiB.

Based on what is shown in the VAST REST API (/api/capacity/) here is the mapping of data in this report

- **Pre-Reduction bytes** in the report are the “**logical**”
- **Post- Reduction bytes** in the report are the “**usable**”
- **Reduction ratio** in Bocada is shown as **Pre- Reduction /Post- Reduction**

Note that VAST UI shows bytes in GB (1000 based), which is different from what Bocada shows.



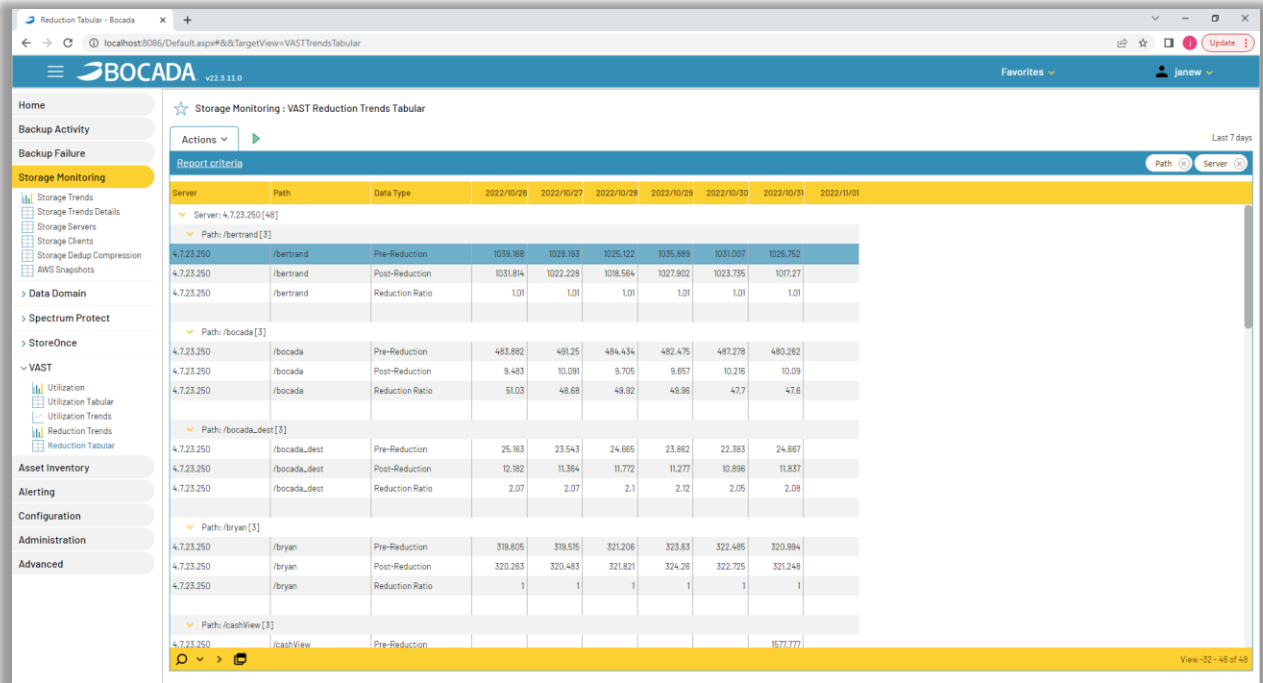
6.7 VAST Reduction Tabular Report

The VAST Path Trends Tabular report shows bytes in binary GB (1024 based) aka GiB.

Based on what is shown in the VAST REST API (/api/capacity/) here is the mapping of data in this report

- **Pre-Reduction bytes** in the report are the “logical”
- **Post- Reduction bytes** in the report are the “usable”
- **Reduction ratio** in Bocada is shown as **Pre- Reduction /Post- Reduction**

Note that VAST UI shows bytes in GB (1000 based), which is different from the GiB (1024 based) that Bocada shows.



Reduction Tabular - Bocada

Storage Monitoring : VAST Reduction Trends Tabular

Report criteria

Server	Path	Data Type	2022/10/26	2022/10/27	2022/10/28	2022/10/29	2022/10/30	2022/10/31	2022/11/01
Server: 4.7.23.250 [48]									
Path: /bertrand [3]									
4.7.23.250	/bertrand	Pre-Reduction	1038.988	1026.183	1025.122	1035.889	1031.007	1026.752	
4.7.23.250	/bertrand	Post-Reduction	1031.814	1022.228	1018.564	1027.802	1023.735	1017.27	
4.7.23.250	/bertrand	Reduction Ratio	1.01	1.01	1.01	1.01	1.01	1.01	
Path: /bocada [3]									
4.7.23.250	/bocada	Pre-Reduction	463.882	491.25	454.434	482.475	487.278	480.282	
4.7.23.250	/bocada	Post-Reduction	9.483	10.091	9.705	9.657	10.216	10.09	
4.7.23.250	/bocada	Reduction Ratio	51.03	48.68	49.92	49.96	47.7	47.6	
Path: /bocada_dest [3]									
4.7.23.250	/bocada_dest	Pre-Reduction	25.163	23.543	24.665	23.882	22.383	24.687	
4.7.23.250	/bocada_dest	Post-Reduction	12.182	11.364	11.772	11.277	10.896	11.837	
4.7.23.250	/bocada_dest	Reduction Ratio	2.07	2.07	2.1	2.12	2.05	2.08	
Path: /bryan [3]									
4.7.23.250	/bryan	Pre-Reduction	318.805	318.515	321.206	323.63	322.485	320.994	
4.7.23.250	/bryan	Post-Reduction	320.263	320.483	321.821	324.28	322.725	321.248	
4.7.23.250	/bryan	Reduction Ratio	1	1	1	1	1	1	
Path: /cashView [3]									
4.7.23.250	/cashView	Pre-Reduction						1577.777	

View -12 - 48 of 48

7 Technical Support

For technical support or a copy of our standard support agreement, please contact us.

E-mail: support@bocada.com

Support Portal: <http://www.bocada.com/product-support/>

Phone: +1-425-898-2400

Copyright © 2022 Bocada LLC. All Rights Reserved. Bocada and BackupReport are registered trademarks of Bocada LLC. Vision, Prism, vpConnect and the Bocada logo are trademarks of Bocada LLC. Other product names mentioned herein may be trademarks or registered trademarks of their respective companies.

Protected by U.S patents 6,640,217; 6,708,188; 6,745,210; 7,457,833; 7,469,269; 7,496,614; 8,407,227

The material in this manual is for information only and is subject to change without notice. While efforts have been made to ensure accuracy, Bocada LLC assumes no liability resulting from errors or omissions in this document, or from the use of information contained herein.

Bocada LLC reserves the right to make changes in the product design and documentation without reservation and without notification to its users.