



Chargeback Explained

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Disclaimer

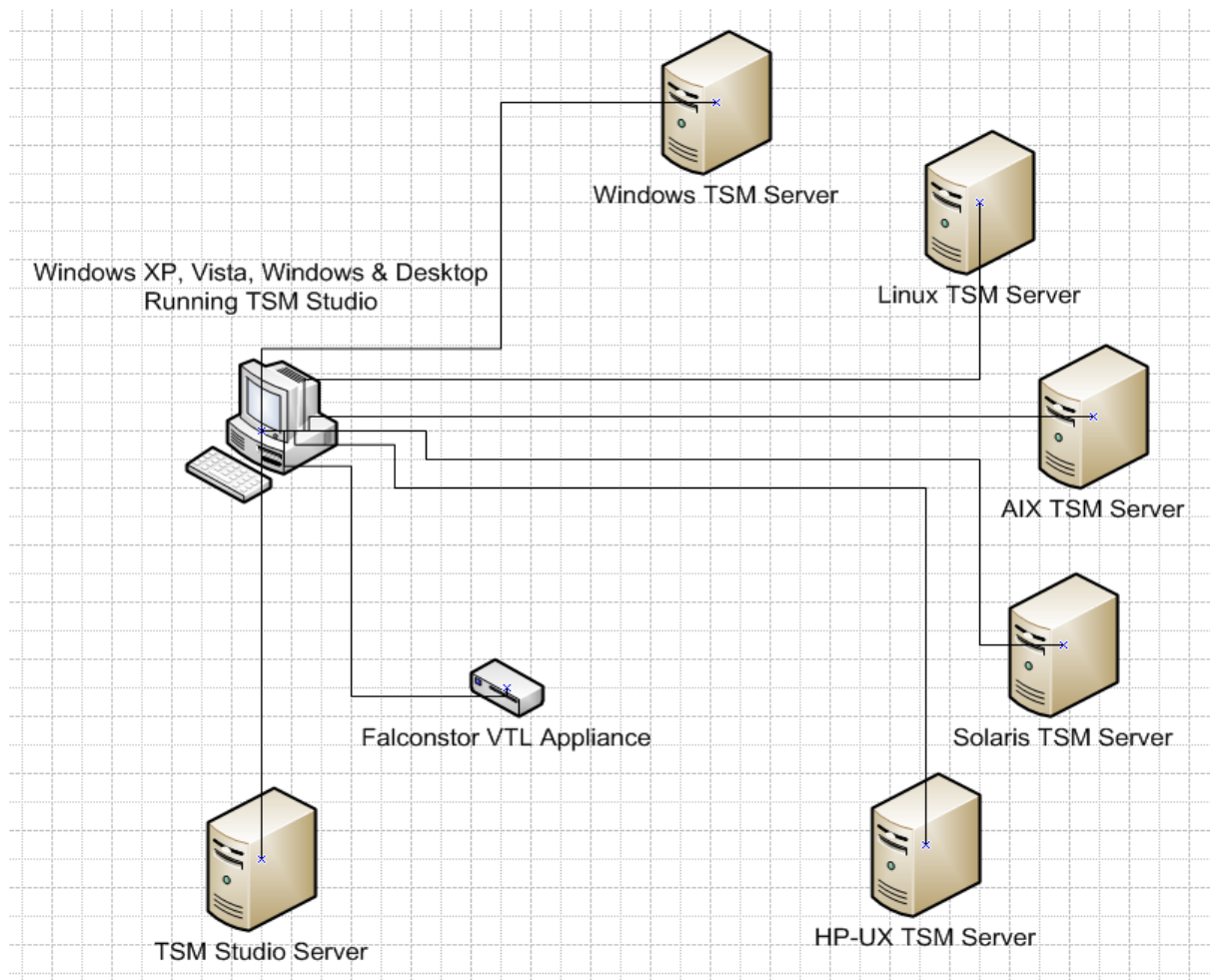
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What is TSM Studio

TSM Studio is a tool for managing your TSM Studio Environment, it provides access to a range of TSM object and reports not available from the ISC and includes a reporting engine for designing your own reports without the need for a large hardware investment.

TSM Studio runs on your desktop and connects to any TSM Server in your environment and can provide a consolidated view of all your TSM Servers



Chargeback in TSM Studio

The TSM Studio chargeback dataviews provide a way to put a dollar figure on the amount of data stored in your TSM server(s). Additionally TSM Studio provides chargeback dataviews for the amount of network traffic being generated by the client nodes storing and retrieving data to\from your TSM server(s).

This document explains the different chargeback dataviews available and how the data is calculated for these views. All the chargeback dataviews are available at both the TSM Server level and Group level, this means that you can report on a group of TSM Servers in one dataview.

Setting up the Cost per MB figures

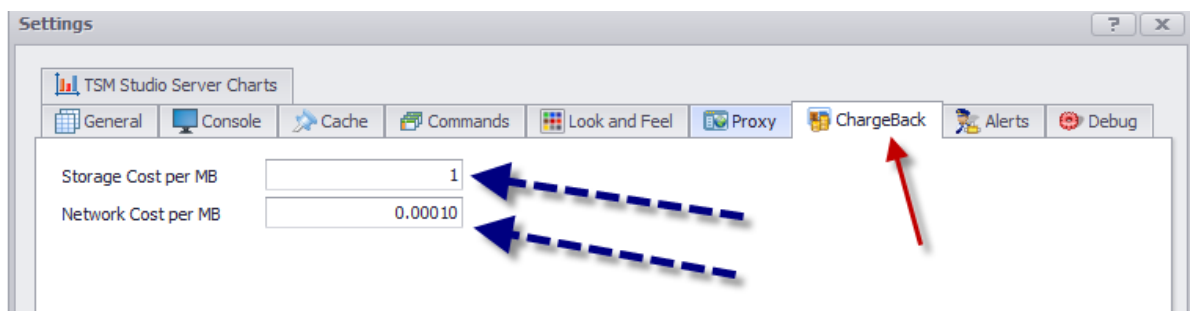
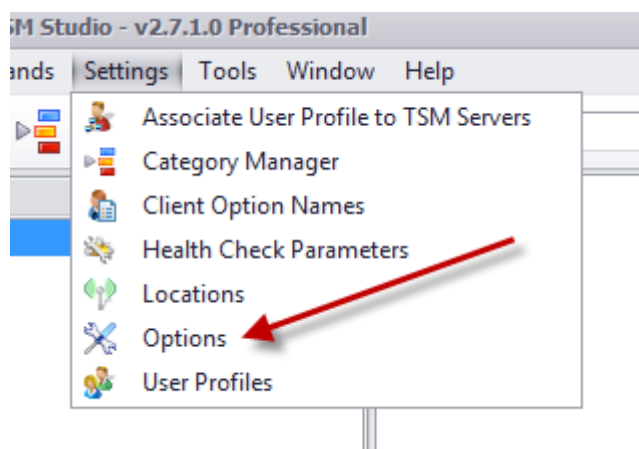
The actual dollar figures used in the TSM Studio chargeback dataviews is defined by the user. The "Storage Cost per MB" is used by the dataviews producing storage related reports

- Charge Back by File System
- Charge Back by File System (Detail)
- Charge Back by Storage
- Charge Back by Storage (Detail)

The "Network Cost per MB" is used by the dataviews producing network related reports

- Charge Back by Node – Network
- Charge Back by Node – Network (Detail)

These figures are setup by selecting Settings→Options from the menu and selecting the ChargeBack Tab



Charge Back by File System

Charge Back By File System			
Server Name	Node Name	Filespace Name	Charge Back Cost
Spirit Software Server 2	SPIRITCL1_S1	\\spiritd1\c\$	1,110.78
Spirit Software Server 2	SPIRITCL1_S2	ASR	0.03
Spirit Software Server 2	SPIRITCL1_S2	SPIRITCL1\SystemState\NULL\System State\SystemState	875.11
Spirit Software Server 2	SPIRITCL1_S2	SPIRITCL4\SystemState\NULL\System State\SystemState	852.28
Spirit Software Server 2	SPIRITCL1_S2	\\spiritd1\c\$	4,298.06
Spirit Software Server 2	SPIRITCL1_S2	\\spiritd4\c\$	3,608.64
Spirit Software Server 2	SPIRITCL2_S2	ASR	0.03
Spirit Software Server 2	SPIRITCL2_S2	SPIRITCL2\SystemState\NULL\System State\SystemState	870.08
Spirit Software Server 2	SPIRITCL2_S2	\\spiritd2\c\$	4,856.60
Spirit Software Server 2	SPIRITCL3_S2	ASR	0.03
Spirit Software Server 2	SPIRITCL3_S2	SPIRITCL3\SystemState\NULL\System State\SystemState	868.62

This dataview provide the output for each file space for every node. The Charge Back cost is calculated by multiplying the "Storage Cost per MB" * the Physical_MB field. The Physical_MB field is not shown in this dataview.

Charge Back by File System (Detail)

Server Name	Node Name	Filespace Name	Storage Used	Capacity	Pct Util	Charge Back Cost
Spirit Software Server 1	SPIRITCL1_S1	ASR	0.07	0.0	0	0.07
Spirit Software Server 1	SPIRITCL1_S1	SPIRITCL1\SystemState\NULL\System State\SystemState	948.9	0.0	0	948.90
Spirit Software Server 1	SPIRITCL1_S1	\\spiritd1\c\$	4426.57	307172.4	19	4426.57
Spirit Software Server 1	SPIRITCL2_S1	ASR	0.07	0.0	0	0.07
Spirit Software Server 1	SPIRITCL2_S1	SPIRITCL2\SystemState\NULL\System State\SystemState	923.25	0.0	0	923.25
Spirit Software Server 1	SPIRITCL2_S1	\\spiritd2\c\$	4753.64	204781.6	13	4753.64
Spirit Software Server 1	SPIRITCL3_S1	ASR	0.07	0.0	0	0.07
Spirit Software Server 1	SPIRITCL3_S1	SPIRITCL3\SystemState\NULL\System State\SystemState	925.34	0.0	0	925.34
Spirit Software Server 1	SPIRITCL3_S1	\\spiritd3\c\$	4194.86	204781.6	12	4194.86
Spirit Software Server 1	SPIRITCL4_S1	ASR	0.07	0.0	0	0.07
Spirit Software Server 1	SPIRITCL4_S1	SPIRITCL4\SystemState\NULL\System State\SystemState	925.66	0.0	0	925.66
Spirit Software Server 1	SPIRITCL4_S1	\\spiritd4\c\$	4031.82	204781.6	12	4031.82
Spirit Software Server 1	SPIRITCL5_S1	ASR	0.07	0.0	0	0.07

This dataview shows each file space for each node, the total storage used (PHYSICAL_MB field), the total capacity of each file space, the file space percentage utilized and the Charge Back Cost. The Charge Back cost is calculated by multiplying the "Storage Cost per MB" * the Physical_MB field. The Physical_MB field is not shown in this dataview.

Charge Back by Node – Network

Charge Back By Node - Network ✕			
Server Name	Node Name	Charge Back Cost	
Spirit Software Server 1	SPIRITCL1_S1	45,204.40	
Spirit Software Server 1	SPIRITCL2_S1	14,189.20	
Spirit Software Server 1	SPIRITCL3_S1	31,645.14	
Spirit Software Server 1	SPIRITCL4_S1	33,064.00	
▶ Spirit Software Server 1	SPIRITCL5_S1	32,589.08	
Spirit Software Server 1	SPIRITCL6_S1	38,793.19	

This dataview shows produces a Charge Back cost based on the number of bytes of Backup traffic received for a given node. When this dataview is opened a date range can be selected, the charge back figure is calculated by summing the number of bytes backed up (taken from the summary table for backups only) and multiplied by the "Network Cost per MB"

Charge Back by Node – Network (Detail)

Charge Back By Node - Network (Detail) ✕			
Server Name	Node Name	Total Bytes	Charge Back Cost
▶ Spirit Software Server 1	SPIRITCL1_S1	226,715,926.00	22,671.59
Spirit Software Server 1	SPIRITCL2_S1	0.00	0.00
Spirit Software Server 1	SPIRITCL3_S1	166,386,774.00	16,638.67
Spirit Software Server 1	SPIRITCL4_S1	172,910,770.00	17,291.07
Spirit Software Server 1	SPIRITCL5_S1	158,912,193.00	15,891.21
Spirit Software Server 1	SPIRITCL6_S1	209,577,960.00	20,957.79

This dataview shows produces a Charge Back cost based on the number of bytes of Backup traffic received for a given node. When this dataview is opened a date range can be selected, the charge back figure is calculated by summing the number of bytes backed up (taken from the summary table for backups only and shown on in the Total Bytes field) and multiplied by the “Network Cost per MB”

Charge Back by Node – Storage

Charge Back By Node - Storage		
Server Name	Node Name	Charge Back C...
Spirit Software Server 1	SPIRITCL5_S1	6,147.00
Spirit Software Server 1	SPIRITCL2_S1	5,749.00
Spirit Software Server 1	SPIRITCL1_S1	5,384.00
Spirit Software Server 1	SPIRITCL3_S1	5,107.00
Spirit Software Server 1	SPIRITCL4_S1	5,097.00
Spirit Software Server 1	SPIRITCL6_S1	4,998.00
Spirit Software Server 1	TSTNODE2	0.00
Spirit Software Server 1	TESTNODE	0.00

This dataview show a charge back cost based on the total storage consumed by a node. This TOTAL_MB figure is taken from the Audit Occupancy table and multiplied by the "Storage Cost per MB".

NOTE: The Audit Occupancy table is an internal TSM table and is only updated when an audit license is run

Charge Back by Node – Storage (Detail)

📁 Charge Back By Node - Storage (Detail) ✕				
Server Name	Node Name	Total Mb	Charge Back C...	
Spirit Software Server 2	SPIRITCL1_S2	9,634	9,634.00	
Spirit Software Server 1	SPIRITCL5_S1	6,147	6,147.00	
Spirit Software Server 1	SPIRITCL2_S1	5,749	5,749.00	
Spirit Software Server 2	SPIRITCL2_S2	5,727	5,727.00	
Spirit Software Server 3	SPIRITCL2_S3	5,407	5,407.00	
Spirit Software Server 6	SPIRITCL2_S6	5,405	5,405.00	
Spirit Software Server 1	SPIRITCL1_S1	5,384	5,384.00	
Spirit Software Server 1	SPIRITCL3_S1	5,107	5,107.00	
Spirit Software Server 1	SPIRITCL4_S1	5,097	5,097.00	
Spirit Software Server 2	SPIRITCL4_S2	5,039	5,039.00	
Spirit Software Server 1	SPIRITCL6_S1	4,998	4,998.00	
Spirit Software Server 2	SPIRITCL3_S2	4,963	4,963.00	
Spirit Software Server 6	SPIRITCL1_S6	4,640	4,640.00	
Spirit Software Server 3	SPIRITCL1_S3	4,638	4,638.00	

This dataview show a charge back cost based on the total storage consumed by a node. This TOTAL_MB figure is taken from the Audit Occupancy table and multiplied by the "Storage Cost per MB". The Total Mb field is shown in this dataview

NOTE: The Audit Occupancy table is an internal TSM table and is only updated when an audit license is run