

CA TLMS[®] Tape Management

TLMS_GMI_User_ENU

Release 12.6 Second Edition



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CA Technologies Product References

This document references the following CA Technologies products:

- CA 1® Tape Management (CA 1)
- CA ASTEX™ Performance (CA ASTEX)
- CA CREWS™ Catalog Recovery (CA CREWS)
- CA Datacom®/DB (CA Datacom)
- CA Disk™ Backup and Restore (CADisk)
- CAEncryption Key Manager
- CA Graphical Management Interface (CA Vantage GMI)
- CA IDMS™ /DB (CA IDMS)
- CA MasterCat™ VSAM Catalog Management (CA MasterCat)
- CA PDSMAN® PDS Library Management (CA PDSMAN)
- CA Storage Resource Manager (CA SRM)
- CA SYSVIEW® Performance Management (CA SYSVIEW)
- CATape Encryption
- CA TLMS® Tape Management (CA TLMS)
- CA Vantage™ Storage Resource Manager (CA Vantage SRM)
- CA Vtape™ Virtual Tape System (CAVtapeVTS)

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Chapter 1: Introducing CA Vantage GMI

Note: The following software versions were used to create the screen samples and examples in this guide:

- CA Vantage SRM Windows Client Release 12.6
- CA Vantage SRM Web Client Release 12.6
- CA Vantage SRM Release 12.6

This section contains the following topics:

[About CA Vantage GMI](#) (see page 7)

[The Object Tree](#) (see page 9)

[Standard CA Vantage GMI Features](#) (see page 11)

About CA Vantage GMI

CA Vantage GMI is the graphical management interface product that allows you to view and manage mainframe activity from a PC. It consists of user-interface clients which interface with a z/OS server component to allow access to basic z/OS server functions.

The following user-interface clients are available:

Windows Client

This client provides full functionality. That is, you can manually perform view and analysis functions, filter and sort desired entries, zoom (drill-down) to related objects, and take actions upon selected entries. You can create customized colored reports in different formats, for example, tables and graphs in HTML, PDF, and XLS formats. These reports can be printed and exported to your PC directory, servers, intranet, and so on. The Windows Client has a Scheduler component that manages scheduled tasks defined in the Windows Client (for example, tasks scheduled using the View and Output Definitions, and Object Logging functions). You can create, manage, and view Summary Objects, Joined Objects, and Delta Objects. This client also provides designer wizards to create scripts to monitor and respond to any condition, exceptional or routine, in automatic ways. These automation services let you replace many manual processes of managing your system. It also has a JCL Management feature to manage JCL and includes the Host Config Client which you can use to set CA Vantage SRM system parameters.

Web Client

As a browser interface, it can be used from any PC with internet access to the Web Client's application server. The current version of the Web Client provides the user-driven functionality of view and analysis, filtering and sorting, zooming, and the ability to take actions on selected entries. You can create customized colored reports in different formats, for example, tables and graphs in HTML, PDF, and XLS formats. These reports can be printed and exported to your PC directory, servers, intranet, and so on. The Web Client has a Scheduler component that manages scheduled tasks defined in the Web Client (for example, you can schedule output reports). You can create, manage, and view Joined Objects. You can view Summary Objects and Delta Objects.

3270-based interface (View 3270 Client)

This client provides partial functionality. It is limited to the user-driven functionality of view and analysis, filtering and sorting, zooming, and the ability to take actions on selected entries.

Note: The View 3270 Client is considered a character-based user-interface, not a graphic-based user-interface, so it is not discussed in this guide. For View 3270 Client installation and configuration information, see the *CA Vantage SRM Configuration Guide*. For more information about using the View 3270 Client, see the chapter "Navigating the View 3270 Client" in the *CA Vantage SRM User Guide*.

Note: This guide mostly displays examples from the Windows Client, which are similar in many respects to the Web Client. For more information about Web Client features, see the *CA Vantage SRM Web Client Guide*.

CA Vantage GMI is included free of charge with many CA products. The CA Vantage GMI components only need to be installed once. However, you must configure the z/OS server component for each CA Vantage GMI enabled CA product you want to use CA Vantage GMI for, on each host where you want to use it. The following is the list of CA Vantage GMI enabled CA products:

- CA 1
- CA ASTEX
- CA CREWS
- CADisk
- CA IDMS/DB
- CAEncryption Key Manager
- CA MasterCat
- CA PDSMAN
- CA SYSVIEW
- CATape Encryption

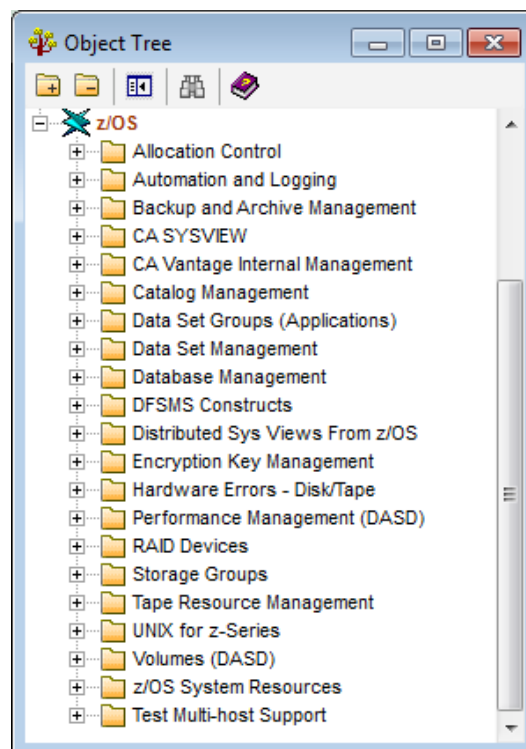
- CATLMS
- CA Vantage SRM
- CAVtapeVTS

The Object Tree

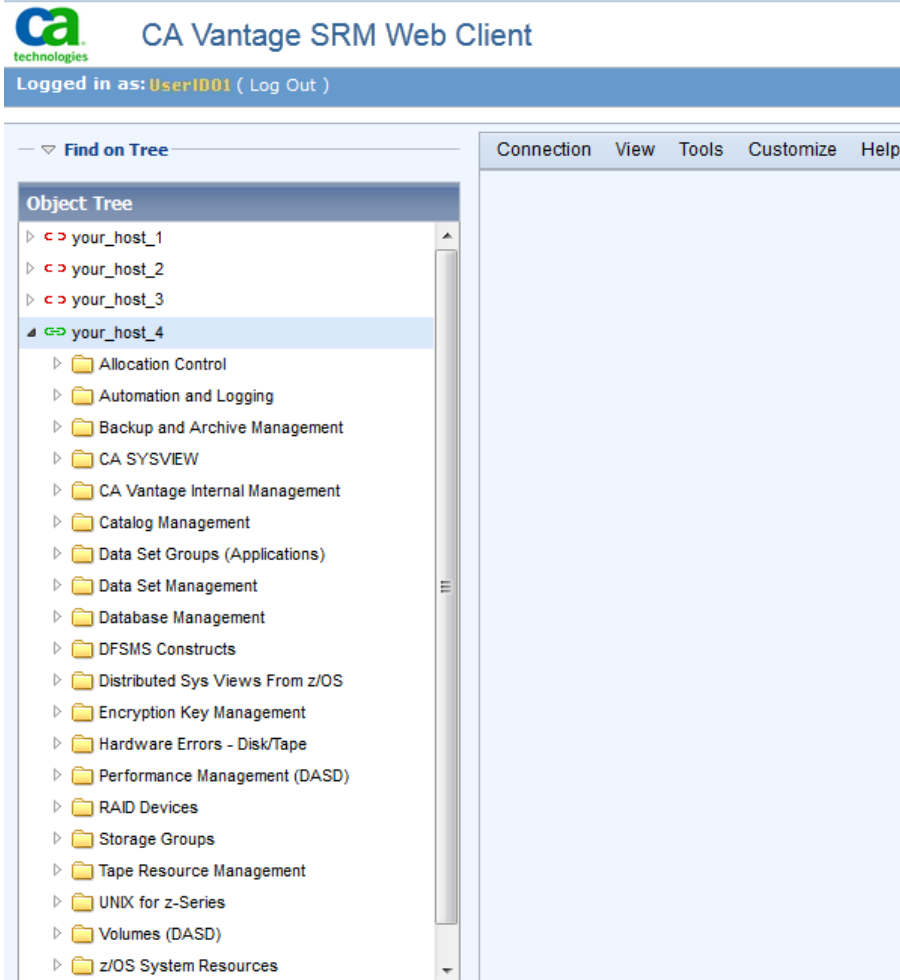
You access all user-interface functions from the main window of the user-interface. The Object Tree is a major feature on the main window of the user-interface.

The expandable and collapsible Object Tree lists all the source objects in a hierarchical tree structure. A folder icon represents a grouping of objects in the tree. When you expand a folder you will either view subfolders, the objects in the folder, or both. Different types of objects are represented by different icons and their title. A source object contains all the fields updated by the data collection services for that object. All fields-or any subset of them-can be included in user-defined views based on the source object.

In the Windows Client, the Object Tree is displayed in its own window. To display the Object Tree in the Windows Client, click the Object Tree icon in the Windows Client toolbar. The following is a sample of the Windows Client Object Tree window:



In the Web Client, the Object Tree is displayed in the Object Tree navigation pane in the Web Client main window. The following is an example of the Object Tree navigation pane in the Web Client main window:



You can access CA Vantage GMI enabled product objects using the user-interfaces, and the following basic CA Vantage SRM storage management objects:

- CA Vantage Internal Management, which includes the following objects and sub-folders:
 - All Summary Objects
 - All Joined Objects
 - JCL Model List
 - Mailbox
 - Operator Commands

- System Parameters
- Sub-folder; Dictionary (objects: Dictionary Object Definitions Dictionary, Dictionary Field Definitions and so on)
- Sub-folder; Memory Usage (objects: Memory Usage Summary, Memory usage above the bar, and so on)
- Sub-folder, Status Monitors (objects: Internal Status Monitor, and Log and Warm Start Status)
- Sub-folder; Messages (objects: System Activity Log, console messages and so on)
- Catalog Management (locations, relationships, entries, and space usage)
- DFSMS Constructs (all attributes)
- Hardware Errors (current and historical, and tape units)
- Storage Groups (space usage and other attributes)
- Volumes (DASD - space usage and other attributes)
- z/OS System Resources (APF list, Link list, and so on)

To find out more about these objects in the Windows Client, right-click the object in the object tree and click the Help on Object option. To display the Object Help in the Web Client, open the object, click Help, and then Object *object_name* Help.

Standard CA Vantage GMI Features

CA Vantage GMI user-interfaces provide a rich set of standard features for working with your products and related object data. These features include the following:

- Simultaneous connection to several z/OS hosts, with separate views for each host, or all hosts consolidated into a single view
- Table views of all data, customizable with the ease of point-and-click
- Graphical views of any numeric data, easily customized, with a wide range of two-dimensional and three-dimensional features
- Filtering and sorting on any field
- Summary Totals and Statistics (aggregate functions such as total, average, minimum, and maximum)
- Scaling (KB, MB, GB, and so on) and color coding features
- Drill-down feature to zoom to related object data

- Wizards for simple or complex summaries (Summary Objects)
Note: Currently, you can create and manage Summary Objects using only the Windows Client. You can view Summary Objects using both the Windows Client and the Web Client.
- Reporting features for customized and printed reports
- Multiple output formats, including:
 - Web page (HTML)
 - Email
 - PDF
 - Excel
 - Microsoft Access Database (MDB)
Note: This output format is only available from the Windows Client.
 - Comma Separated Values (CSV)
Note: This output format is only available from the Web Client.
- Schedulers for producing and sending report output on a regular basis
- JCL management (edit, model, drag and drop, substitute, submit, and schedule)
Note: Currently, JCL management is only available in the Windows Client.

The following sections provide examples of some of the standard features of the Windows Client:

- [Standard Object Views](#) (see page 12)
- [Standard View Options](#) (see page 30)
- [Other Standard Features](#) (see page 49)

Standard Object Views

The standard object views in the Windows Client are the Table View, Graph View, and List View. The standard object view in the Web Client is the table view and you can create charts (graphs) of object information (data).

The following sections describe the Table View of both clients and the Graph View of the Windows Client.

Table Views

In both the Windows Client and the Web Client, the default view of objects is the Table View. The Table View displays object information (data) in configurable tables. You can change display characteristics (such as the width and number of table columns, the number of rows displayed, and so on) and characteristics that apply to specific objects, such as sort and filter criteria. The display and object-specific characteristics determine the appearance of the table. When you save your user-defined views of objects, you automatically save the display and object characteristics with it.

The following is a sample of an object table displayed by the Web Client:

Object Name **Page Navigation Aids**

Object Menu Options

Rows currently displayed and total rows

Status Line **Scroll Bars** **Data Collection Mode**

SG Name	Type	% Allo	Capacity Bytes	Allocated Bytes	Free Bytes	Larg Free Exbyt	Volume	Model
AUTMVOLS	SMS	73	2,838,016,440	2,097,021,312	740,995,128	67,996,800	AUTM06	3
AUTMVOLS	SMS	59	2,838,016,440	1,693,743,624	1,144,272,816	197,190,720	AUTM04	3
AUTMVOLS	SMS	67	8,514,049,320	5,761,935,504	2,752,113,816	409,850,712	AUTM07	9
AUTMVOLS	SMS	43	2,838,016,440	1,238,958,360	1,599,058,080	334,034,280	AUTM01	3
AUTMVOLS	SMS	67	2,838,016,440	1,925,952,696	912,063,744	103,695,120	AUTM05	3
AUTMVOLS	SMS	72	2,838,016,440	2,048,856,912	789,159,528	87,545,880	AUTM02	3
AUTMVOLS	SMS	51	8,514,049,320	4,383,130,392	4,130,918,928	1,381,298,328	AUTM08	9
AUTMVOLS	SMS	54	2,838,016,440	1,556,673,408	1,281,343,032	181,041,480	AUTM03	3

The following is a sample of a Table View of an object displayed by the Windows Client:

Window Title

Table View

Menu Bar

Toolbar

Switch to:
 Table Pane
 Graph Pane
 List Pane
 Trend Pane

Status Line

Data collection mode

Number of Records

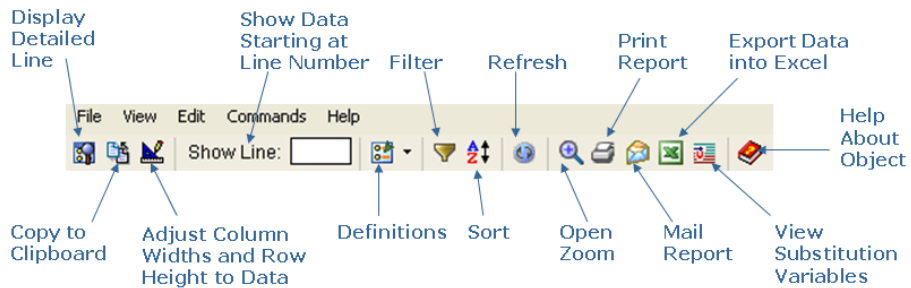
	SG Name	Type	% Allo	Capacity	Allocated Bytes	Free Bytes	MxExBytes	Volume
1	SYSDA	MVS	77	2,838,016,440	2,204,569,584	633,446,856	266,037,480	FOWL63
2	SYSDA	MVS	74	2,838,016,440	2,119,176,936	718,839,504	189,541,080	FOWL51
3	3390	MVS	53	2,838,016,440	1,504,259,208	1,333,757,232	128,343,960	SMS003
4	IBMPOOL	USR	74	2,838,016,440	2,119,176,936	718,839,504	189,541,080	FOWL51
5	IBMPOOL	USR	73	2,838,016,440	2,080,475,424	757,541,016	312,785,280	FOWL52
6	IBMPOOL	USR	60	2,838,016,440	1,721,962,296	1,116,054,144	362,932,920	FOWL53
7	IBMPOOL	USR	83	2,838,016,440	2,362,662,144	475,354,296	109,644,840	FOWL54
8	IBMPOOL	USR	83	2,838,016,440	2,379,944,664	458,071,776	88,395,840	FOWL55

In the Windows Client, you can change the view type, for example from the Table View to the Graph View, or List View by clicking the *Switch to* icon in the bottom left corner of the object window, as shown in the sample Table View. In the Web Client, if you have created a chart (graphic) view of object data then the chart is displayed above the table.

Table View Dialog Toolbar Options

The Web Client Customize Menu provides access to the Customize View Wizard and the Customize Report Wizard. The Customize View Wizard provides object view customize options such as: filter, sort, charting (object graphs), hide or display columns, rename columns, and so on. The Customize Report Wizard allows you to create and manage output reports and output report schedules.

The Windows Client Table View dialog toolbar provides the following options:



The Windows Client Table View dialog toolbar icons can vary depending on the object being displayed. The following are just a couple of the additional icons that may appear depending on the object being displayed:

View Info Area Icon ()

Displays an information area (Info Area) window that contains information unique to the object, or other information related to the entire object.

Note: To see an explanation of the information displayed in the information area window, open the *Help About Object* online help system from the object's toolbar.

Input List Icon ()

Allows you to specify the input that creates the object. The type of input can vary from object to object. In some cases, such as when working with CA Disk archive and backup data, the Input List provides the names of one or more data sets from which the object data is extracted; that is, the CA Disk FILES Data Sets. In the case of the BCS Data Set Entries object (which lists catalog entries), the Input List is a data set name or data set name pattern to be found in the system catalogs. For other objects, the Input List is an input command to the specific product that produces the object.

In most cases, each Input List can be configured to provide system defaults. The Input List dialog allows you to override the default values. Click the Help button in the Input List dialog to find out how to use the dialog.

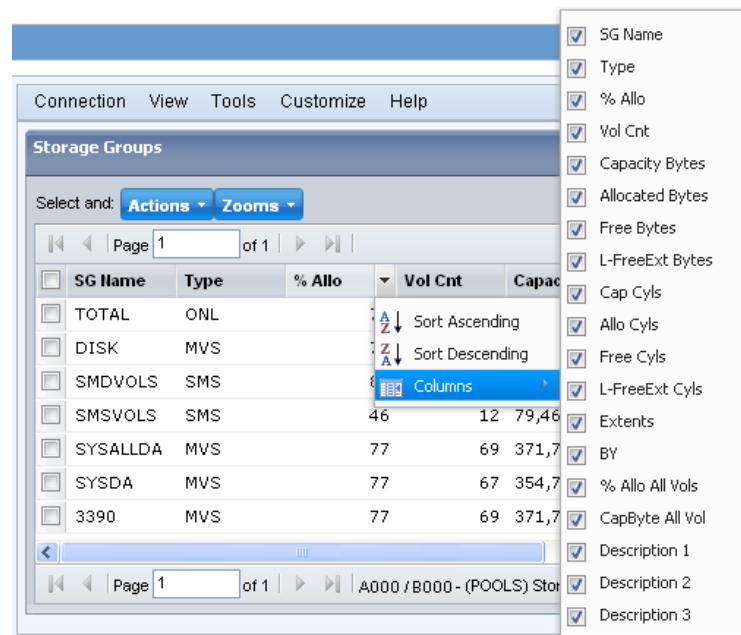
When the Input List consists of data set names, and GDGs are appropriate, either relative or absolute names may be entered. You may also specify System variables and System Symbols within the Input List, and their active values will be substituted.

Note: Because an Input List is not executed in any specific object context, you cannot use Object Related variables for substitution.

Note: For more information about the Table View dialog toolbar options, see the *CA Vantage SRM Windows Client Guide* and the *Help About Window* online help system.

Additional Table View Options

In addition to the Web Client menu and toolbar options, you can click the down arrow next to a column heading and sort the object table by that column in ascending or descending order. You can also click the down arrow next to a column heading and specify which columns you want to display or hide. The following is an example of the Web Client's Object Column Headings Options menu, where the down-arrow next to the % Alloc column heading is selected:



Note: The Web Client Customize View Wizard also provides sort and column display or hide options.

In addition to the Windows Client Table View menu and toolbar options you can also perform some quick appearance changes to the Table View as follows:

- Quick Find in Column
- Quick Sort on Columns
- Quick Color Code a Column
- Move the Freeze Column Line
- Return a Table View to Factory Settings

How to perform these changes is explained in the following procedures.

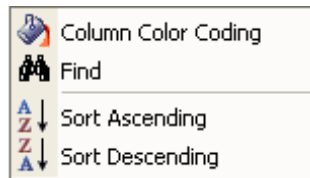
Note: The following Windows Client options and more options for customizing a view are available in the View and Output Definition feature. For more information, see the section [Customized Reports](#) (see page 41).

To Quick Find in Column

Instead of scrolling down to a row you can quickly find a particular item. To do this you can use the Quick Find in Column option by following these steps:

1. Right click the column heading which contains the item you want to find.

The Column Options Menu is displayed as shown in the following sample:



2. Click the Find option in the Column Options Menu.

The Find dialog is displayed.

3. In the Find What field type in the item you want to find. You can type in part of the item, for example if you wanted to find ABC123 then you could type in ABC, ABC1, and so on.

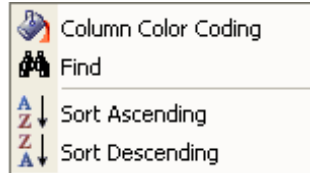
4. Click Find Next.

The Table View of the object is updated and the first item containing your find criteria is displayed. If the criterion is not found in the column then you will receive a message advising it is not found.

To Quick Sort on Columns

You can perform quick sorts in the Table View by clicking a column heading title cell and the table will sort by that column in descending order. Click the column heading title cell again and the table will sort by that column in ascending order.

You can also right click a column heading and the Column Options Menu is displayed where you can select the Sort Ascending or Sort Descending options. The following is a sample of the Column Options Menu:



Note: After you have created a Table View column sort in this manner you may want to remove it; to remove a Table View column sort, click the Sort icon and use the Exclude a Field option or the Exclude all Fields option. For more information, see the section [Sort Option](#) (see page 32).

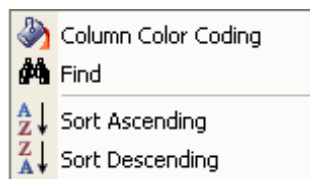
To Quick Color Code a Column

You can highlight certain values in columns by color coding them when specific criteria is met. You have two options for color coding, you can use the Quick Color Code a Column option or you can use the View and Output Destination – Fields option (the View and Output Destination – Fields option, is described in the section [Color Code Option](#) (see page 36)).

To use the Quick Color Code a Column option, perform the following steps:

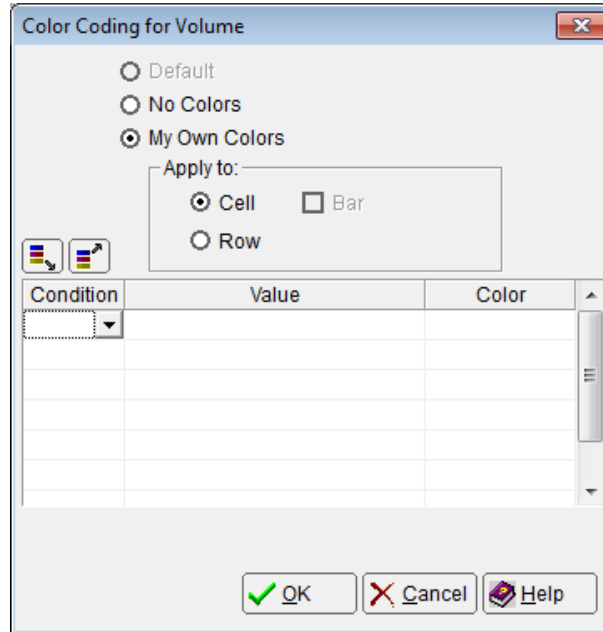
1. Right click the column heading of the column you want to color code.

The Column Options Menu is displayed as shown in the following sample:



2. Click the Column Color Coding option in the Column Options Menu.

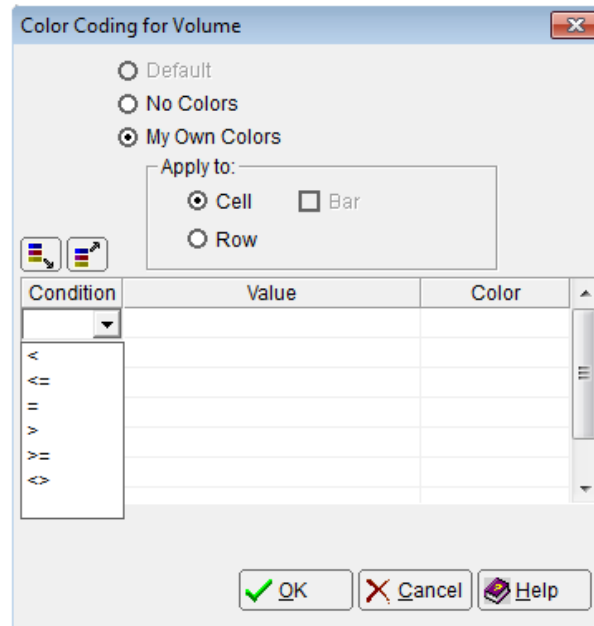
The Column Color Code dialog is displayed. The following is a sample of the Column Color Code dialog displayed for the Volumes column in the Storage Group Volumes object:



3. Click in the first empty Condition cell.
A down arrow appears on the right side of the cell.

- Click the down arrow on the right side of the cell.

The Condition options are displayed as shown in the following sample:



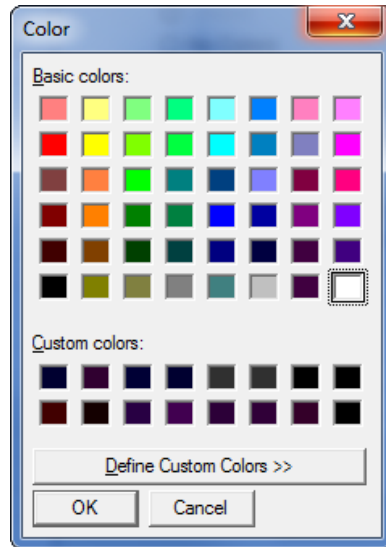
- Select the condition you want.

The condition selected is displayed in the cell.

- Click in the Value cell of the same row you selected the condition. Type in the value that you want the condition applied to.

The value is displayed in the cell.

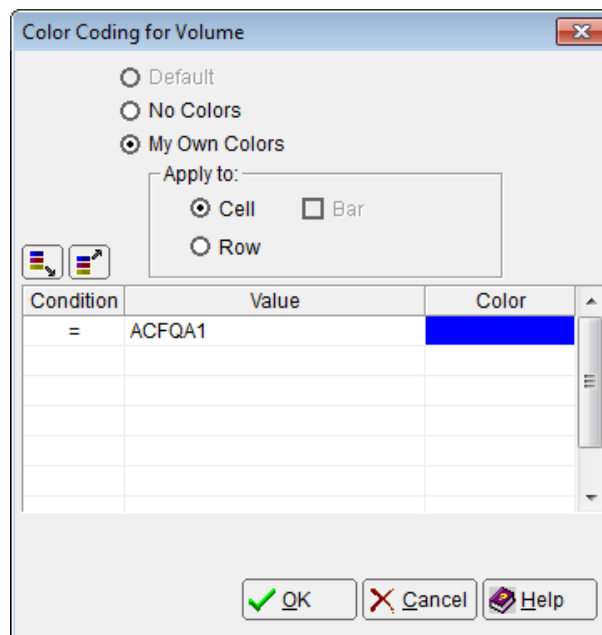
- Click the Color cell of the same row you selected the condition and typed in a value.
The Color dialog is displayed as shown in the following sample:



- In the Color dialog select the color you want to appear as the background for the items that meet your criteria and click OK.

The Column Color Code dialog is displayed showing the condition, value and color you have specified.

The following is an example of the Column Color Code dialog where the condition is '=', the value is 'ACFQA1' and the color is blue for the Volumes column in the Storage Group Volumes object:





9. Click OK.

The Table View of the object is displayed with your color code settings.

10. In the Table View menu select File and then click Save, to save your settings.

If you save the Table View with the column color code setting then every time you open the object the color codes are applied. To remove the column color coding; display the object, right click the column, select No Colors, and then click OK in the Column Color Code dialog.

Observe the following:

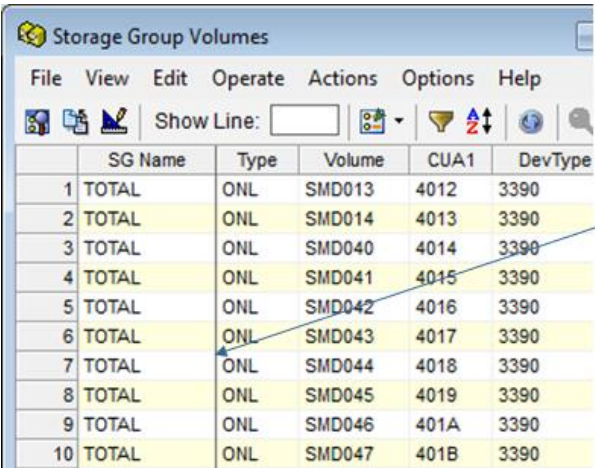
- You can apply the color coding to the cells in the column selected or you can apply the color coding to the whole row by selecting the *Apply to Row* option.
- You can apply predefined color code values by selecting the *Use predefined colors* button ().
- You can save the column color codes you have created so that you can use them later by selecting the *Store these colors as predefined* button ().
- You can have multiple conditions, values, and colors to the same column. However, the Windows Client checks the conditions sequentially until the first match occurs and it uses ANSI character sort order for the comparison (for example: 0-9, A-Z, and a-z). If one value meets two or more conditions then the first condition is applied.

For example: if you color code two conditions in the dialog such that '= AAAA1 Blue' is listed first, and then '> AAAA0 Red' is listed second in the dialog then the Windows Client will apply the '= AAAA1 Blue' condition to all AAAA1 items, then it will apply the second condition, '> AAAA0 Red', to any items that meets the second condition but where the first condition has not been applied. If the conditions are reversed in the dialog so that '> AAAA0 Red' is first and '= AAAA1 Blue' is listed second in the dialog, then the second condition, '= AAAA1 Blue', would be ignored because items with values AAAA1 have already met the first condition and the red color coding is already applied to them.

- There are no "and" or "or" condition statements available for color coding multiple conditions, values, and colors to the same column. There are simply the 'less than', 'less than or equal to', 'equal to', 'greater than', 'greater than' or equal to', 'less than or greater than' and 'Range' (for numerical fields only) conditions available for comparison to the values you specify.

To Move the Freeze Column Line

You can freeze columns so that when you scroll to the right in a Table View, certain columns stay in the view. The black vertical line separating columns is the Freeze Column Line. The following illustration shows the factory default Freeze Column Line for the Storage Group Volumes object:



The screenshot shows a window titled "Storage Group Volumes" with a menu bar (File, View, Edit, Operate, Actions, Options, Help) and a toolbar. Below the toolbar is a table with the following data:

	SG Name	Type	Volume	CUA1	DevType
1	TOTAL	ONL	SMD013	4012	3390
2	TOTAL	ONL	SMD014	4013	3390
3	TOTAL	ONL	SMD040	4014	3390
4	TOTAL	ONL	SMD041	4015	3390
5	TOTAL	ONL	SMD042	4016	3390
6	TOTAL	ONL	SMD043	4017	3390
7	TOTAL	ONL	SMD044	4018	3390
8	TOTAL	ONL	SMD045	4019	3390
9	TOTAL	ONL	SMD046	401A	3390
10	TOTAL	ONL	SMD047	401B	3390

A blue arrow points from the text "Freeze Column line" to a vertical black line located between the "Volume" and "CUA1" columns in the table.

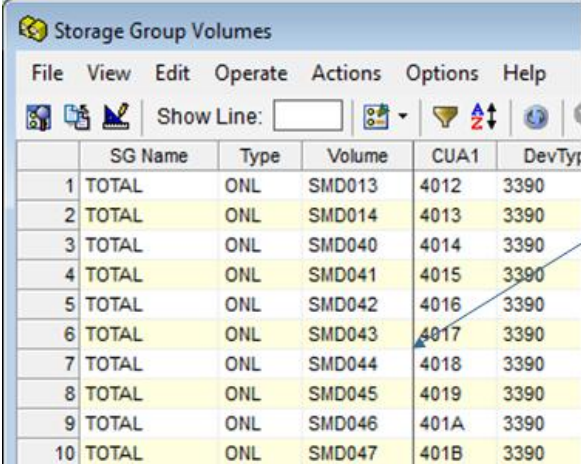
To include the Type and Volumes columns as Freeze Columns perform the following steps:

Note: You can similarly include as many columns as you want as Freeze columns in any Table View of an object.

1. Click on the vertical line between the SG Name and the Type columns and drag-and-drop it to the vertical line between the Volume and the CUA1 columns.

Note: You must click and drag the line anywhere below the column heading portion of the line, that is, it will not work if you click and drag the section of the line between the column headings.

The Freeze Column Line is now displayed between the Volume and the CUA1 columns as shown in the following sample:



The screenshot shows a window titled "Storage Group Volumes" with a menu bar (File, View, Edit, Operate, Actions, Options, Help) and a toolbar. Below the toolbar is a table with the following columns: SG Name, Type, Volume, CUA1, and DevTyp. The table contains 10 rows of data. A vertical line is positioned between the Volume and CUA1 columns, and a blue arrow points to this line with the text "Freeze Column Line moved".

	SG Name	Type	Volume	CUA1	DevTyp
1	TOTAL	ONL	SMD013	4012	3390
2	TOTAL	ONL	SMD014	4013	3390
3	TOTAL	ONL	SMD040	4014	3390
4	TOTAL	ONL	SMD041	4015	3390
5	TOTAL	ONL	SMD042	4016	3390
6	TOTAL	ONL	SMD043	4017	3390
7	TOTAL	ONL	SMD044	4018	3390
8	TOTAL	ONL	SMD045	4019	3390
9	TOTAL	ONL	SMD046	401A	3390
10	TOTAL	ONL	SMD047	401B	3390



When you now scroll to the right in the Storage Group Volumes object the SG Name, Type and Volume columns will always be displayed in the left columns of the view.

2. In the object view menu click File and then Save, to save your settings.

If you save your settings then every time you open the object the Freeze Columns line will be where you saved it. Alternatively you can just close the Table View without saving your Freeze Column Line change and the next time you open the Table View for the object the Freeze Column Line will be where it was with the factory setting.

To Return a Table View to Factory Settings

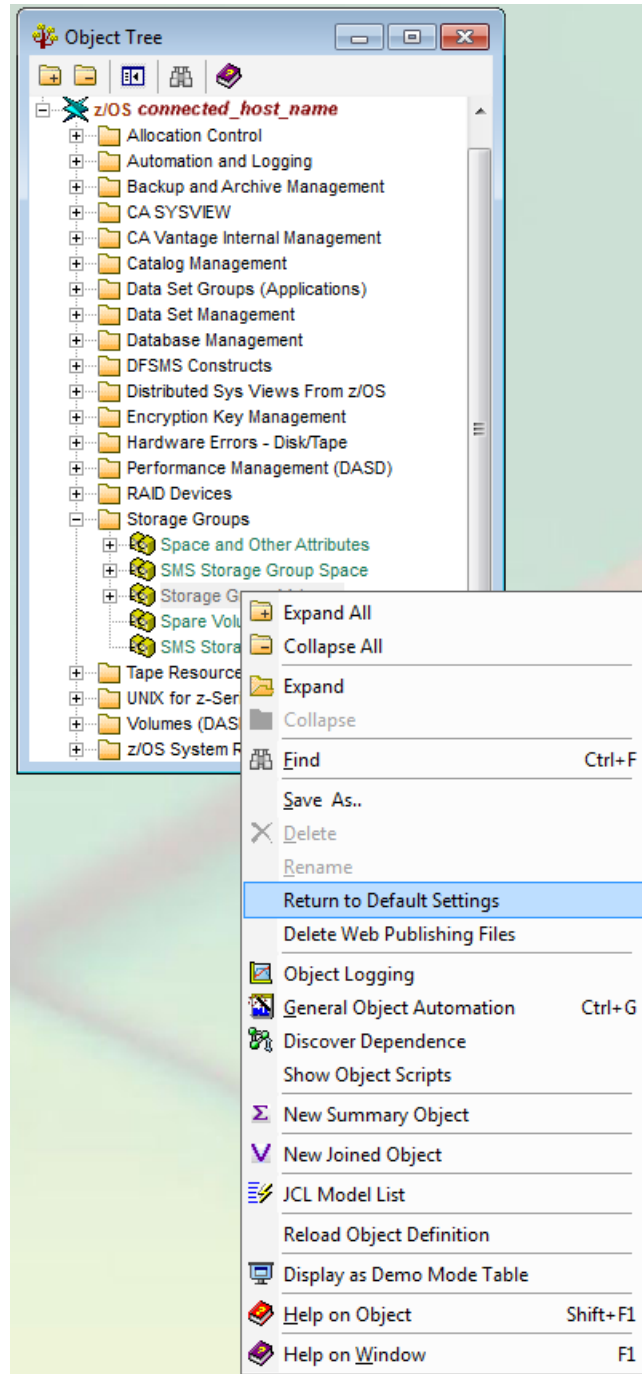
Before you return an object view to factory settings note the following:

- By following this procedure you will erase all your settings in the view of the object, for example the Sort settings, Column Color Coding settings, Freeze Columns settings, Filter settings and so on.
- If you only want to remove a particular setting but not all your customized settings then open the tool option for the setting you want to remove and remove it. The following are a few examples of how to remove particular settings:
 - To remove column color code settings, open the Color Coding dialog for the column colors you want to remove and select No Colors.
 - To remove a filter, open the Filter dialog and click the Clear icon () then Save. For more information, see the section Filter Option.
 - To remove your Freeze Columns settings, move the Freeze Columns line to the dividing line between the first and second column.
 - To remove column sorts, click the Sort icon () and use the Exclude a Field option or the Exclude all Fields option. For more information, see the section Sort Option.

To return an object view to factory settings, perform the following steps:

1. Right click the object in the Object Tree.

The Object Options Menu is displayed. The following shows a sample of the Object Options Menu:



2. Click Return to Default Settings.

A confirmation dialog is displayed.

3. Click Yes.

All the changes to the object that you have previously saved will now be replaced with factory default settings. You will see this change the next time you open the object.

Graph Views


The Graph View feature displays a selected set of object data in a graph.

Note: For Web Client users; the Customize View Wizard in the Web Client provides Charting options. These options allow you to create charts (graphs) of object data. For more information, see the *CA Vantage SRM Web Client Guide*.

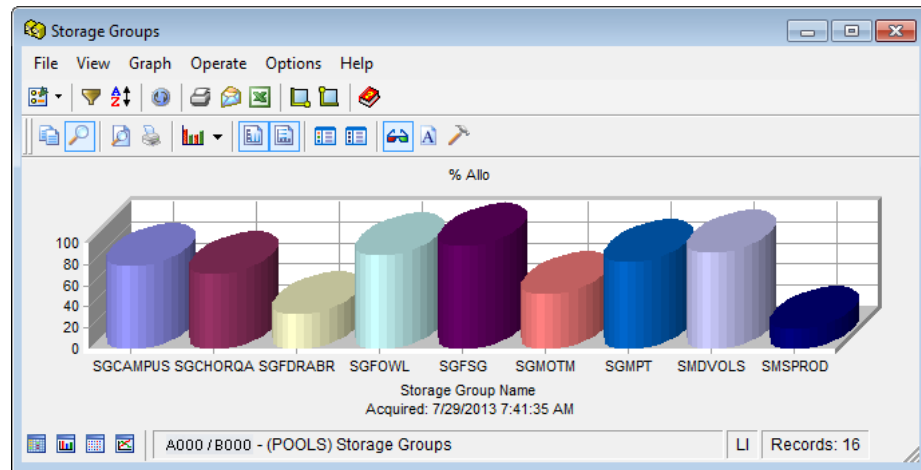
The Windows Client offers a large variation of graph types to present your data in a variety of formats. Some of the available graph types are:

- Line
- Point
- Area-curve
- Bar
- Pie
- Doughnut
- Pyramid
- Cube

You can specify the graph type and its format to obtain the kind of display you prefer. You can preview the general look of a graph while defining its various features.

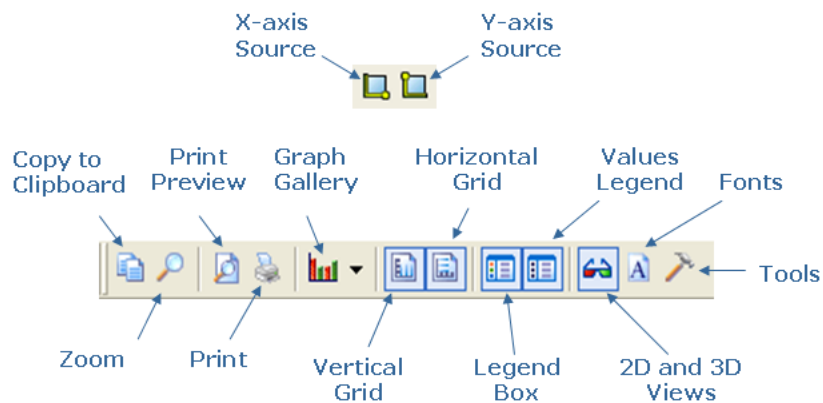
Note: To immediately view certain changes, you must click the Refresh icon ().

The following is a sample of the Windows Client Graph View of the Storage Groups object:



Graph View Dialog Toolbar Options

The Windows Client Graph View dialog toolbar provides the following options for working with graphs:



Note: For more information about the Graph View dialog toolbar options, see the *CA Vantage SRM Windows Client Guide* and the *Help About Window* online help system.

Additional Graph View Options

In addition to the Windows Client Graph View menu and toolbar options you can also perform some quick appearance changes to the Graph View as follows:

- Increase or Decrease Number of Items Displayed
- Quick Gallery Option (to change graph type)
- Quick Color Option (to change graph color)

- Quick Multiple Colors Option

How to perform these changes is explained in the following procedures.

Note: The following options and more options for customizing a view are available in the Windows Client View and Output Definition option. For more information, see the section [Customized Reports](#) (see page 41).

Increase or Decrease Number of Items Displayed

When you switch the object view from Table View to Graph View by clicking the Graph icon in the bottom left corner of the view, the Graph View will display the same amount of items that were displayed in the Table View. For example, if the Table View displayed 8 rows of X records found then the Graph View will display only those 8 items. If you want the Graph View to display more items then switch back to the Table View and expand the window to display more rows. Then when you switch back to the Graph View it will display the same amount of items. For example, if the Table View displayed 8 rows and you expand the Table View to display 10 rows then when you switch to the Graph View it will display 10 items.

You can also use the Sort Option and the Filter Option in order to specify the order of the items and reduce the amount of items you want to display in the graph, prior to switching to the Graph View.

Note: When you print a Graph View, all records (not only the ones displayed in Graph View on your screen) will be included in the printout unless you specify a range in the print option.

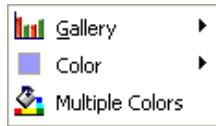
Quick Gallery Option to Change Graph Type

When a Graph View is displayed you can use the Quick Gallery option to change the graph type. (This option is the same as the Gallery icon option found on the Graph View toolbar, this is another method for initializing the same option.)

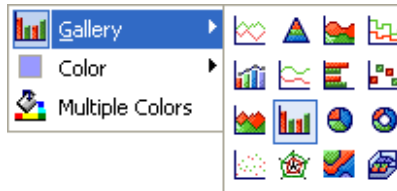
To use the Quick Graph Type Change option

1. Right click in the graph of the Graph View.

The Graph Options Menu is displayed as shown in the following sample:



2. Click the Gallery option and a list of graph types is displayed as shown in the following sample:



- Click on the graph type you want to change to.

The Graph View is updated and the new graph type selected is displayed.

Quick Color Option to Change Graph Colors

When you switch to the Graph View, all the bars will have the same color. To apply different colors to the bars you must first use the Quick Multiple Colors Option. Then you can right click a particular bar and specify a color for that bar. The following procedure assumes you have the object displayed in the Graph View and all the bars have the same color.

To use the Quick Graph Color option to specify a color

- Right click on a particular item (for example a bar) in the graph.

The Graph Options Menu is displayed as shown in the following sample:



- Select the Multiple Colors option.

The Graph View is displayed and the graph items are displayed by a different color.

- Right click on the item (for example a bar) in the graph you want to specify a color for.

The Graph Options Menu is displayed.

- Click the Color option.

A color chart is displayed as shown in the following sample:



- Click on the color you want the item changed to.

The item in the Graph View is displayed with the color selected.

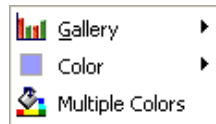
Quick Multiple Colors Option

When you switch to the Graph View, all the bars will have the same color. To apply different colors to the bars you can use the Quick Multiple Colors Option. Then you can right click a particular bar and specify a color for that bar as described in the section Quick Color Option. The following procedure assumes you have the object displayed in the Graph View and all the bars have the same color.

To use the Multiple Colors Option

1. Right click on any item (for example a bar) in the graph.

The Graph Options Menu is displayed as shown in the following sample:



2. Click the Multiple Colors option.

The Graph View is updated with each item displayed by a different color.

Note: To return the Graph View so that all items use the same color, right click an item (for example a bar) in the graph and select the Multiple Colors option.

Standard View Options

In both the Windows Client and the Web Client, each standard view of object data provides options you can use to manipulate object information so it is presented the way you like. Some of the more common Windows Client options are described in the following sections.

Note: For more information about these options in the Web Client, see the *CA Vantage SRM Web Client Guide*.

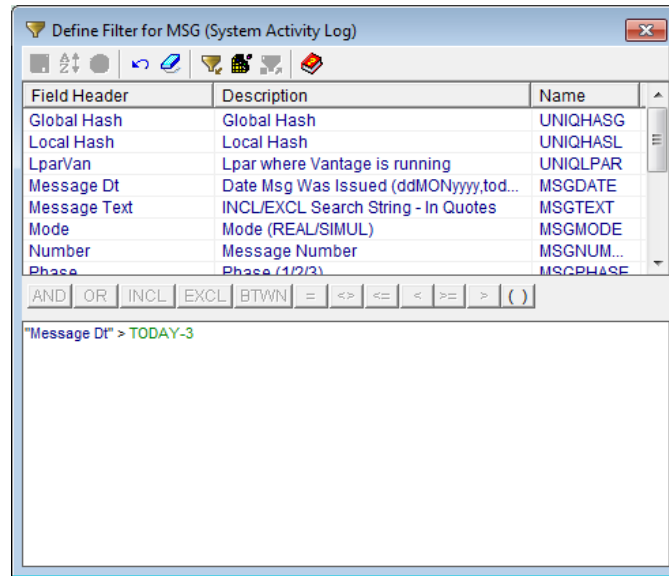
Filter Option

The Filter feature narrows the amount of object information (the number of rows) displayed in the table. The Windows Client lists the object fields in the Filter dialog in alphabetical order by field name. The Filter dialog guides you in the process of defining the filter expression by enabling and disabling the appropriate fields and controls at every step.

Note: For Web Client users; the Customize View Wizard in the Web Client provides a similar filtering feature. For more information, see the *CA Vantage SRM Web Client Guide*.

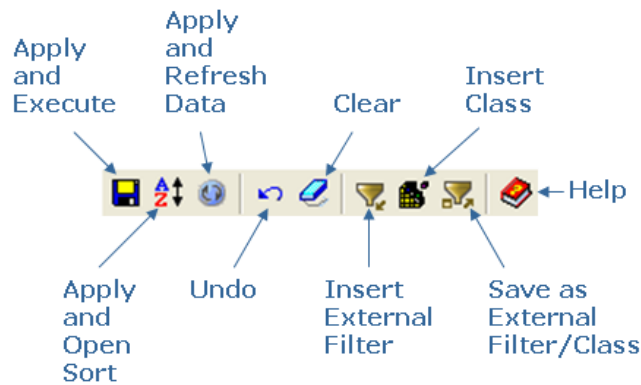
Example: Create a Filter

The following Windows Client example shows the filter criteria that would produce a user defined view showing only the CA Vantage SRM messages issued in the last 3 days. In the example a relative date of TODAY-3 is used instead of an absolute date. A relative date allows for reuse of the filter without you having to calculate and update the date. However you can use absolute dates (specific dates).



Filter Dialog Toolbar Options

The Windows Client Filter dialog toolbar provides the following options:




How Filters Work

A filter can be built from the fields of the object by combining them into Boolean expressions. You can also use expressions that contain patterns with wildcard characters.

You can refine your filter by using the AND/OR logical operators to combine several expressions. Use parentheses to group sub-expressions.

You can enter a filter expression directly into the text box at the bottom of the Define Filter dialog or use the typing aids in the dialog. It is possible to edit any expression in the text box.

Observe the following:

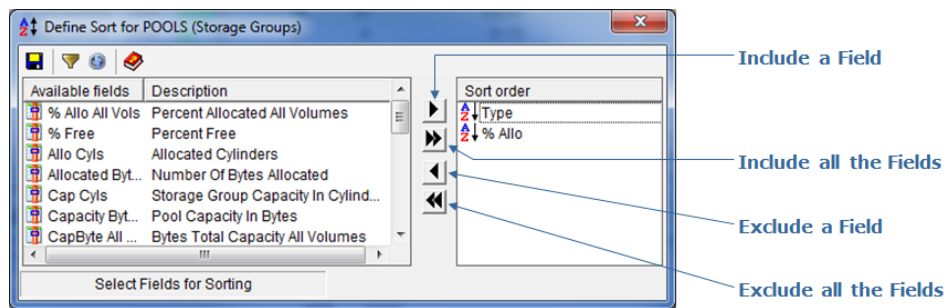
- For more information about how filters work click the Help icon in the Filter dialog.
- To immediately view the effect of your filter you must click the Apply and Refresh Data icon ().

Sort Option



The Sort feature sorts the table by the values in the columns of the table. Every object attribute (or field for z/OS) in a table can serve as a sort key. You can use the Windows Client Sort Dialog to sort object data in both the Table View and the Graph View.

Note: The Customize View Wizard in the Web Client provides a similar sort feature. For more information, see the *CA Vantage SRM Web Client Guide*.


The following is a sample of the Windows Client Sort dialog for the POOLS object. It points out how to include and exclude fields the object view is sorted by.




To change the Sort order using the Windows Client Sort dialog

1. Double-click the Sort Order icon () in the Sort Order pane of the Sort dialog.
The Ascending Sort Order icon () appears.

2. Double-click the Sort Order icon again in the Sort Order pane of the Sort dialog.

The Descending Sort Order icon () appears.

Note: To immediately view the effect of your sort you must click the Apply and Refresh Data icon ().

You can sort object data by columns directly in the Table View.


To sort the Table View by columns in the Windows Client

1. Click the column title you want the object data to be sorted by.

The first time the column title is clicked the table is updated and sorted in ascending order by object data in that column.

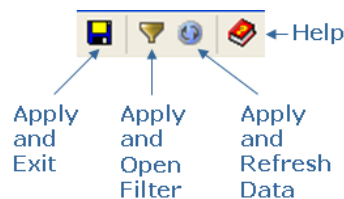
2. Click the column title again to change the sort to descending order.

The table is updated and sorted in descending order by object data in that column.

After you have created a Table View column sort in this manner you may want to remove it; to remove a Table View column sort, click the Sort icon () and use the Exclude a Field option or the Exclude all the Fields option.

Sort Dialog Toolbar Options

The Windows Client Sort dialog toolbar provides the following options:



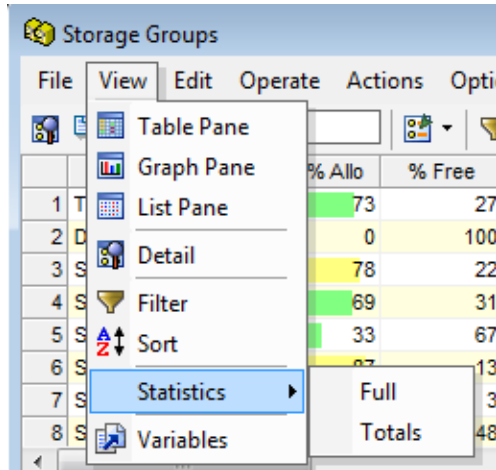
Statistics Full and Totals

The Windows Client Statistics Full and Totals options in the View menu let you request the total of every numeric field, or combine the totals with the average, minimum, and maximum values.

Note: The Statistics option in the View menu of the Web Client provides a statistics and totals view of the object. For more information, see the *CA Vantage SRM Web Client Guide*.

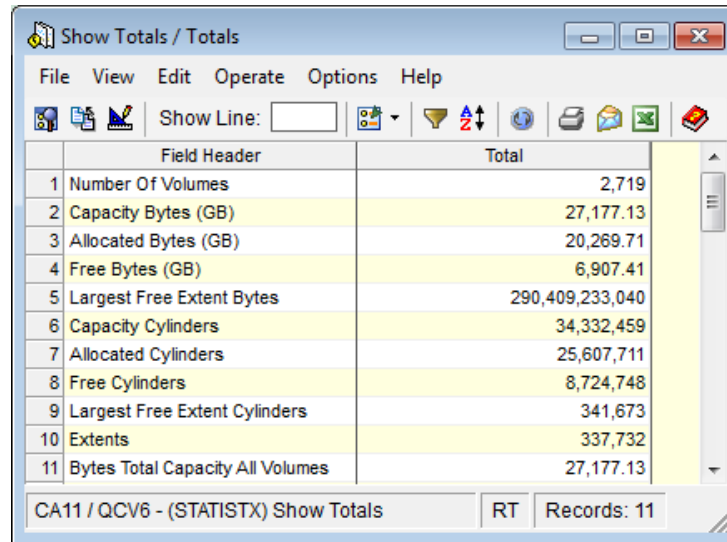
Example: Access Statistics Full and Totals options

The following example shows where to access the Statistics Full and Totals options from the Windows Client View drop-down menu option in the Table View.



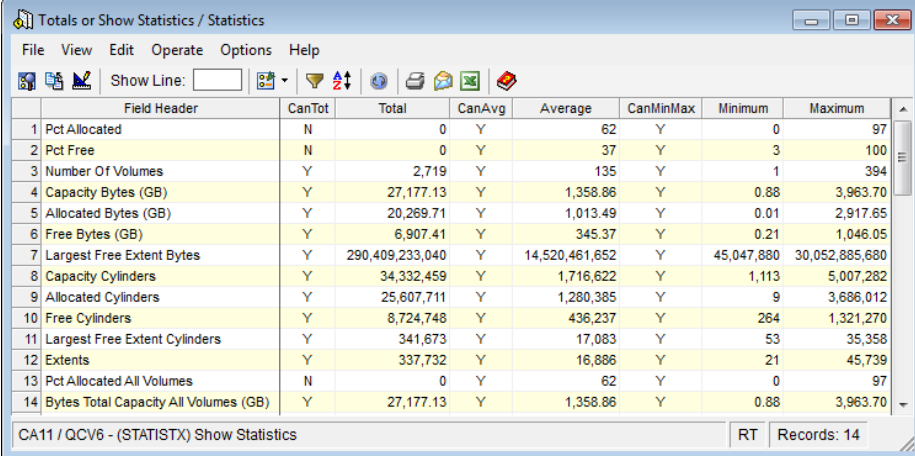
Statistics Totals Option

The Statistics Totals option provides the sum of all numeric fields, as shown in the following sample Windows Client Statistics Totals screen capture.



Statistics Full Option

The Statistics Full option provides totals plus the average, minimum, and maximum values for all numeric fields, as shown in the following sample Windows Client Statistics Full screen capture.



	Field Header	CanTot	Total	CanAvg	Average	CanMinMax	Minimum	Maximum
1	Pct Allocated	N	0	Y	62	Y	0	97
2	Pct Free	N	0	Y	37	Y	3	100
3	Number Of Volumes	Y	2,719	Y	135	Y	1	394
4	Capacity Bytes (GB)	Y	27,177.13	Y	1,358.86	Y	0.88	3,963.70
5	Allocated Bytes (GB)	Y	20,269.71	Y	1,013.49	Y	0.01	2,917.65
6	Free Bytes (GB)	Y	6,907.41	Y	345.37	Y	0.21	1,046.05
7	Largest Free Extent Bytes	Y	290,409,233,040	Y	14,520,461,652	Y	45,047,880	30,052,885,680
8	Capacity Cylinders	Y	34,332,459	Y	1,716,622	Y	1,113	5,007,282
9	Allocated Cylinders	Y	25,607,711	Y	1,280,385	Y	9	3,686,012
10	Free Cylinders	Y	8,724,748	Y	436,237	Y	264	1,321,270
11	Largest Free Extent Cylinders	Y	341,673	Y	17,083	Y	53	35,358
12	Extents	Y	337,732	Y	16,886	Y	21	45,739
13	Pct Allocated All Volumes	N	0	Y	62	Y	0	97
14	Bytes Total Capacity All Volumes (GB)	Y	27,177.13	Y	1,358.86	Y	0.88	3,963.70


Scale Option

The Scale option list lets you select the scale base units for displaying numerical data. The difference between requesting K, M, G, and so on, as opposed to KB, MB, GB and so on is that those with the appended B mean multiples of 1024, while those without the B mean multiples of 1000. For example:

- nnK = nn(1000), nnM = nn(1000)(1000), and so on.
- nnKB = nn(1024), nnMB = nn(1024)(1024), and so on.

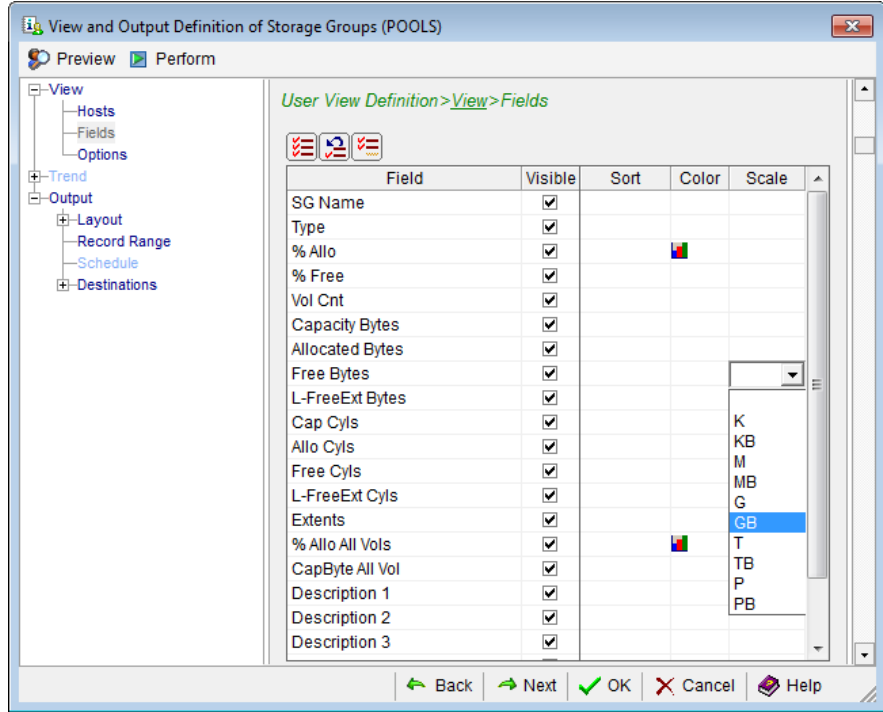
Note: The Customize View Wizard in the Web Client provides a similar field scaling feature. For more information, see the *CA Vantage SRM Web Client Guide*.

To scale a column of numeric data in the Windows Client

1. Click the Definitions icon () on the Windows Client toolbar of the object view. The View and Output Definition dialog appears.
2. Click the Fields option in the left navigation pane of the View and Output Definition dialog. The Fields dialog appears.

- Click the cell in the Scale column of the Field row for which you want to establish the scale for.

A scale options list appears as show in the following sample:

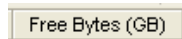


- Select the scale you want to use.

The scale selected appears in the cell in the Scale column of the Field.

- Click OK.

The View and Output Definition dialog closes and the object view is updated with the scales selected. The column heading displays the scale after the heading title, for example if you selected a scale of GB for Free Bytes the column heading title will indicate the scale is GB and would look like the following sample in your object view:




Color Code Option

The Color Code option lets you set conditions for color coding values in object Table Views.

Note: The Customize View Wizard in the Web Client provides a row and field coloring feature. For more information, see the *CA Vantage SRM Web Client Guide*.

To color code values in object views in the Windows Client

1. Click the Definitions icon () from the toolbar of the object Table View.

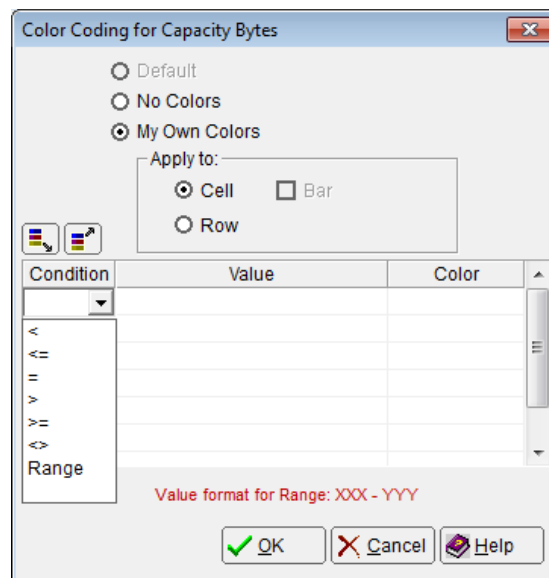
The View and Output Definition dialog appears.

2. Click the Fields option in the left navigation pane of the View and Output Definition dialog.

The Fields dialog appears.

3. Click in the Color cell for a field you want to assign a background color.

The Color Coding dialog appears. The following Color Coding dialog sample shows how you can select a condition, enter a condition value, and then select a background color for the item that meets the condition.

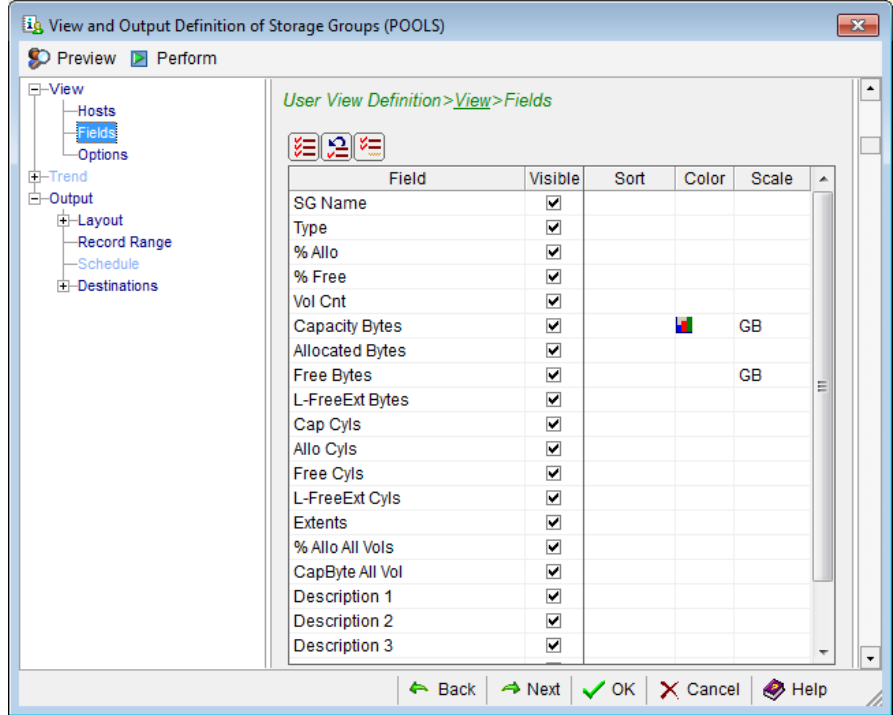


4. Complete the Color Code dialog.

The condition, value, and color code you selected are displayed in the Color Code dialog.

- Click OK in the Color Code dialog.

The Color Code dialog closes and the field Color icon (🎨) appears in the Color cell in the Fields dialog, as shown in the following sample.



- Click OK.

The View and Output Definition dialog closes. The object Table View appears with background of values that meet your conditions color coded.

Open Zoom Option (Drill-Down Feature)

The Windows Client Open Zoom feature provides you with a list of objects that have related information. You can select an object from the Zoom list dialog to view the related information.

Note: The Web Client provides a Zoom feature on the Object toolbar. For more information, see the *CA Vantage SRM Web Client Guide*.

To zoom to related objects in the Windows Client

- Select a row in the object Table View.

The selected row is highlighted.

- Click the Open Zoom icon (🔍).

The Zoom list dialog appears, listing related objects.

- Click an object in the Zoom list.

Object information in the object selected for that item appears.

The following sample illustrates a zoom from a particular Storage Group in the Storage Groups object to the same Storage Group in the Storage Groups Volumes object.

The screenshot shows two windows from the Storage Groups application. The background window, titled 'Storage Groups', displays a table with columns: SG Name, Type, % Allo, % Free, Vol Cnt, Capacity Bytes (GB), Allocated Bytes (GB), and Free Bytes (GB). The foreground window, titled '(Zoom to) Storage Group Volumes', displays a table with columns: SG Name, Type, Volume, CUA1, DevType, Model, and % Allo. The zoomed window shows details for the 'SMDVOLS' storage group.

SG Name	Type	% Allo	% Free	Vol Cnt	Capacity Bytes (GB)	Allocated Bytes (GB)	Free Bytes (GB)
9 SGMPT	SMS	82	18	11	285.26	236.23	49.0
10 SMDVOLS	SMS	91	9	59	509.42	468.21	41.2
11 Data Sets By Storage Group					21.14	4.16	16.9
12 Storage Group Volumes					74.01	41.71	32.3
13 SMS-SG (Storage Group)					3,963.70	2,950.52	1,013.1
14 DFSMS Complex					3,963.70	2,950.52	1,013.1

SG Name	Type	Volume	CUA1	DevType	Model	% Allo
1 SMDVOLS	SMS	SMD001	5224	3390	27	90
2 SMDVOLS	SMS	SMD002	5225	3390	27	97
3 SMDVOLS	SMS	SMD003	5226	3390	27	97
4 SMDVOLS	SMS	SMD004	530A	3390	27	91
5 SMDVOLS	SMS	SMD005	530B	3390	27	92
6 SMDVOLS	SMS	SMD006	530C	3390	27	96
7 SMDVOLS	SMS	SMD007	530D	3390	27	85

New Summary Objects Option

The Windows Client Summary Designer helps you create new summary objects from any source object. You select the method for defining the summary groups and select the fields to include in the summary object. The summary object includes summary groups from a source object table, and then provides statistics about all the object rows that fall into each summary group. The statistics include counts, maximum values, minimum values, average values, and totals. These statistics are provided for each group of records and for all the records.

You can start the Windows Client Summary Designer two ways, from the object pop-up menu or from the Object view Menu Bar.

Note: Currently, you cannot create or manage Summary Objects using the Web Client. You can view Summary Objects using the Web Client.

To start the Windows Client Summary Designer from the object pop-up menu

- Right-click on the object in the Object Tree view.

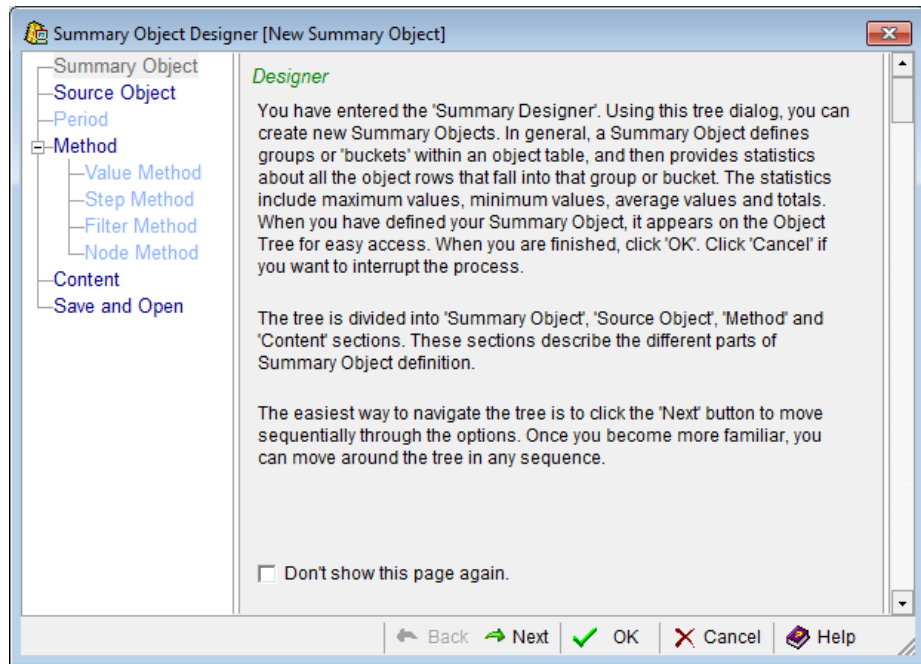
The Object pop-up menu appears.

2. Select New Summary Object in the Object pop-up menu.
The Summary Designer appears.

To start the Summary Designer from the object view Menu Bar

1. Click the object in the Object Tree view.
The object view appears.
2. Select View, then New Summary Object from the object view Menu Bar.
The Summary Designer appears.

The following is a sample of the Summary Designer.



Note: For more information about how to use the Summary Designer to create a new Summary Object click the Help icon in the Summary Designer dialog, or see the chapter "Working with Generalized Summary Objects" in the *CA Vantage SRM User Guide*.

Customized Reports

You can customize reports with the appearance and information you want by using the Windows Client Output Report wizard and the View and Output Definition wizard.

Note: The Customize Reports Wizard in the Web Client provides an output report feature you can use to create and manage user-view object data output reports and schedules for output reports. For more information, see the *CA Vantage SRM Web Client Guide*.

Windows Client Output Report wizard

This wizard allows you to define:

- The number of records (record range) of the report.
- The report format (print, web publishing, email, PDF, HTML, XML, TXT, Excel, FTP Server, and so on).
- The destination of the report (the printer, the directory, web server, email address, FTP server ID, and so on).

Windows Client View and Output Definition wizard

This wizard allows you to define:


- The z/OS hosts from which data is to be retrieved.
- The fields (columns) to be included in the report.
- The order of the fields (columns) displayed in the report.
- The sort, color, and scale of the data in the report.
- The layout design, contents, and record range of the report. This includes the grouping of the fields (columns) displayed in the report (using the Grouping facility in this feature).
- The report format (print, web publishing, email, PDF, HTML, XML, TXT, Excel, FTP Server, and so on).
- The destination of the report (the printer, the directory, web server, email address, FTP server ID, and so on).

To start the Output Report wizard in the Windows Client

1. Click the object in the Object Tree view to open the object view.
2. Click File, Output Report. Or click one of the following icons from the object window toolbar:
 - Print Report
 - Mail Report
 - Export data into Excel

The Output Report wizard opens.

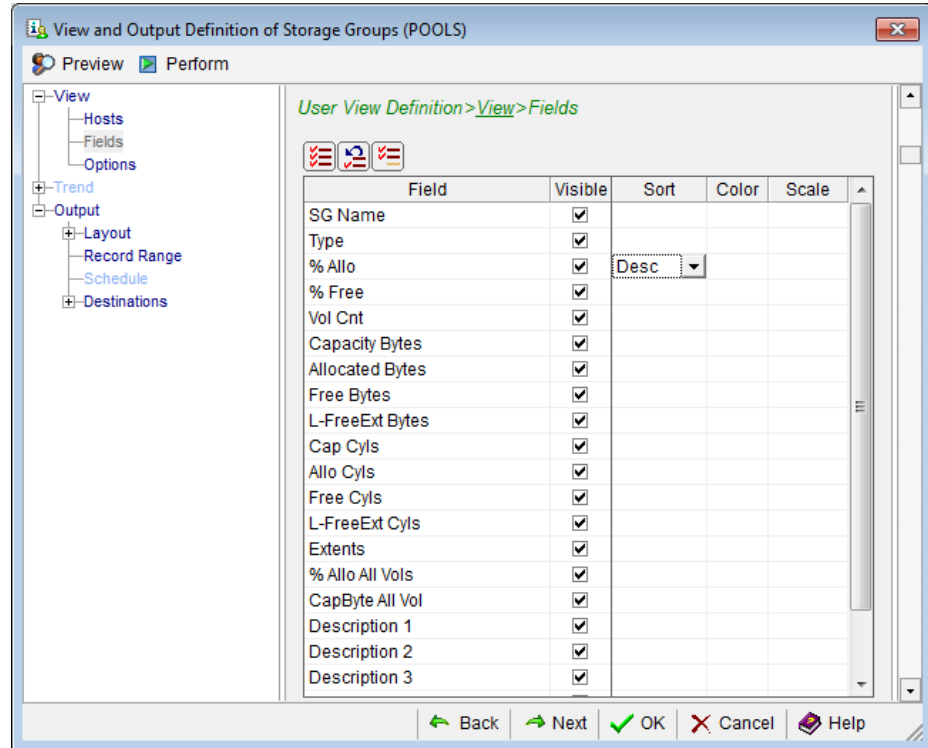
To start the View and Output Definition wizard in the Windows Client

1. Click the object in the Object Tree view.
The object view opens.
2. Click the Definitions icon () from the toolbar of the object view.
The View and Output Definition wizard opens.

Example: Define fields to be displayed in a Storage Groups report

You can create a report based on the Storage Groups object that contains information on the SG Name, Type, % Allo, Vol Cnt, Capacity Bytes, Allocated Bytes and Free Bytes. You can then sort the report by descending % Allo.

The following example shows how you would define this report in the Windows Client View and Output Definition>View>Fields dialog.



Note: For more information about the View and Output Definition dialog, click the Help icon in the View and Output Definition dialog.

Multiple Output Formats

You can use the Windows Client Output Reports wizard to define output formats, number of records, and destinations of your object view as it is currently displayed. You also have the option of using the View and Output Definition wizard to customize reports with the appearance and information you want.

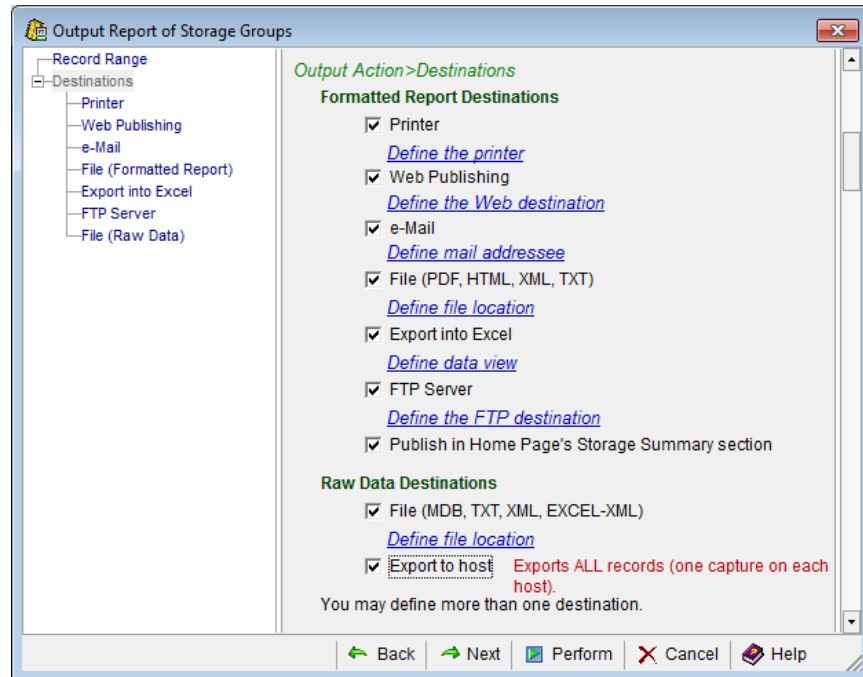
Note: The Customize Reports Wizard in the Web Client provides an output report feature where you can define output formats, schedules, and destinations of object user-view data. For more information, see the *CA Vantage SRM Web Client Guide*.

When using the Output Reports wizard in the Windows Client, the output includes all the information from your object view as it appears in your object view at the time you generate the report. Before you generate the report, you can use other object view options (such as filter, sort, color code, and so on) to design how the information appears in your object view and subsequently how the report appears. The number of records in the report depends on the settings in the Record Range page of the wizard.

To start the Output Report wizard in the Windows Client

1. Click the object in the Object Tree view to open the object.
2. Select File, then Output Report from the object View menu to open the Output Report wizard. If you just want to print a report, mail a report as an attachment, or export the object data to Excel, then simply click the corresponding report output icon in the object window toolbar.

The following is a sample of the Windows Client Destinations page of the Output Report wizard for the Storage Group object.



Each output destination gives you additional options as shown in the following example procedure for creating a Formatted File.

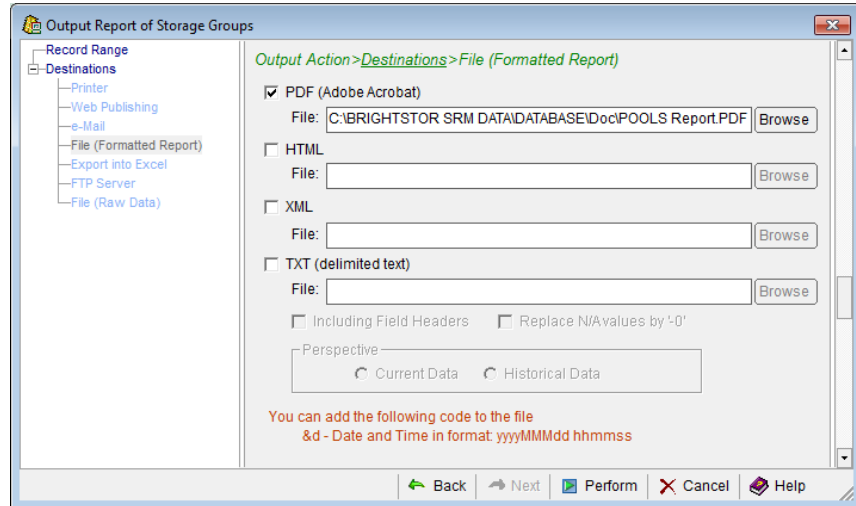
To produce a Formatted File using the Output Report wizard

1. Click the box next to the File (PDF, HTML, XML, TXT) option in the Destinations page of the Output Report wizard.

A check mark appears in the box next to the File (PDF, HTML, XML, TXT) option and the Define file location link is highlighted.

- Click the Define file location link.

The File (Formatted Report Destinations) Destinations page opens with PDF (Adobe Acrobat) format selected, as shown in the following sample:



- Click the box next to the formats of the report you want to create. For example, select the box next to HTML option if you do not want to create a HTML file.

The File: field is populated with a default location dependent on the formats selected.

- Click the Browse button next to the File: field if you want to change where the report is to be filed.


The File: field is populated with the new file location.

- Click Perform.

The File (Formatted Report Destinations) page closes, and the file is created and filed in the location indicated.

Note: For more information about the Output Report wizard, click the Help icon in the Output Reports wizard.

Print Report Option

You can quickly print an object view using the Windows Client Print Report icon () from the toolbar of the object view.

Note: The Customize Reports Wizard in the Web Client provides a output report feature with output report options. You can then print the output report as you would any report. For more information, see the *CA Vantage SRM Web Client Guide*.

When using the Windows Client Output Report wizard, the output includes all the information from your object view as it appears in your object view at the time you generate the report. Before you generate the report, you can use other object view options (such as filter, sort, color code, and so on) to design how the information appears in your object view and subsequently how the report appears. The number of records in the report depends on the settings in the Record Range page of the Output Report wizard. You also have the option of using the View and Output Definition wizard to customize reports with the appearance and information you want.

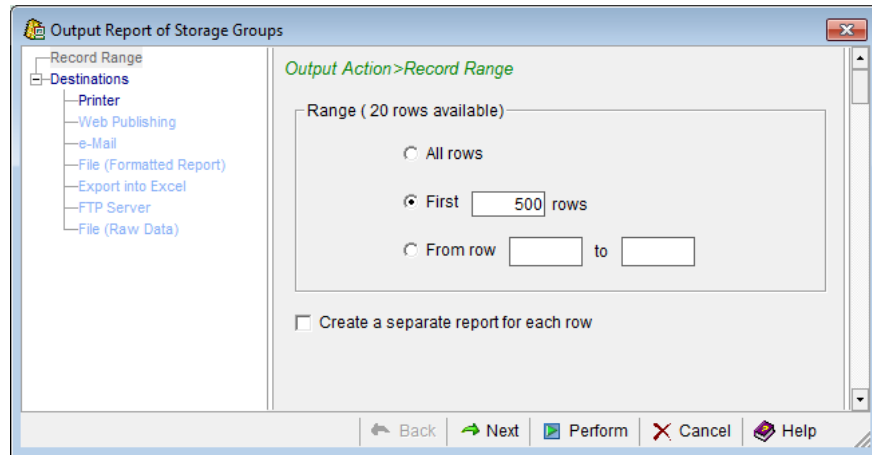
To quickly print an object view using the Print Report icon in the Windows Client

1. Click the object in the Object Tree view.

The object view appears.

2. Click the Print Report icon () from the toolbar of the object view.

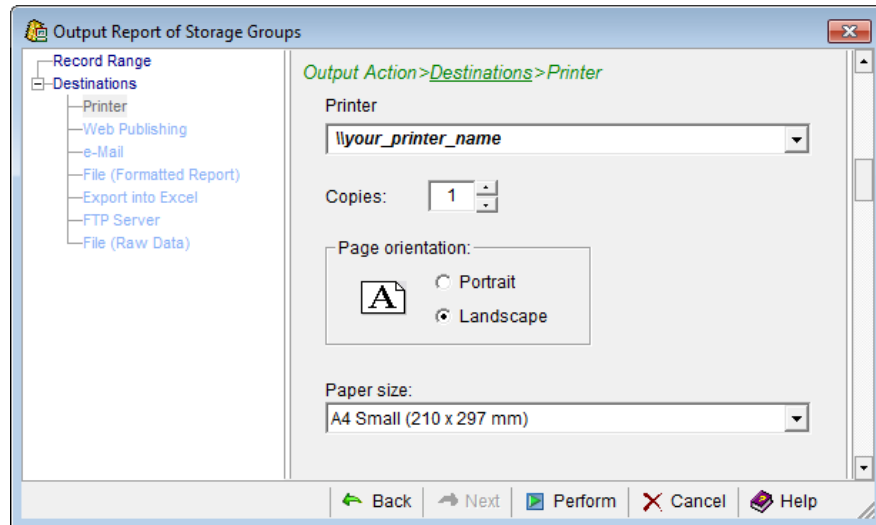
The Record Range page of the Output Report wizard opens, as shown in the following sample:



3. Indicate how many rows of information you want printed.
4. If you have defined a default printer in your Windows operating system and you want the print file sent to that printer click the Perform button.

The Record Range page closes and the print file is sent to your default printer. You do not need to perform any more of the following steps.

- If you want to indicate the printer you want the report sent to click the Next button. The Destinations page opens.
- Click the *Define the printer* link to open the Printer page, as shown in the following sample:



- Click the down arrow at the end of the Printer field and select the printer you want the report sent to.

Note: The Printer drop-down list includes all printers you have defined in your Windows operating system printer setup.


You can also use the Printer page to specify number of copies, page orientation, and paper size.

- Click Perform.

The Printer page closes and the print file is sent to the printer.

Note: For more information about the Output Report wizard, click the Help icon in the wizard.


Mail Report Option

You can email an object view report in PDF, HTML or Excel format using the Windows Client Mail Report icon () from the toolbar of the object view.

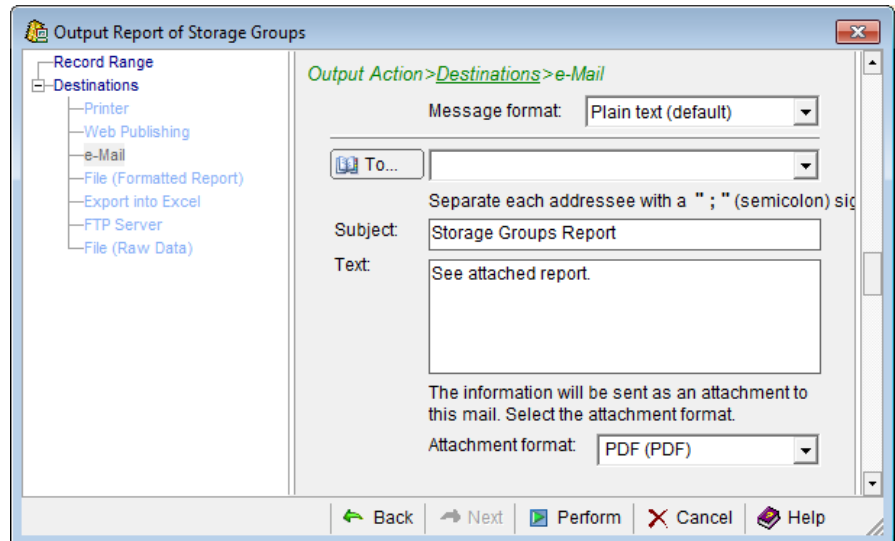
Note: The Customize Reports Wizard in the Web Client provides an email output report option. For more information, see the *CA Vantage SRM Web Client Guide*.

When using the Windows Client Output Report wizard to email a report, the output includes all the information from your object view as it appears in your object view at the time you generate the report. Before you generate the report, you can use other object view options (such as filter, sort, color code, and so on) to design how the information appears in your object view and subsequently how the report appears. The number of records in the report depends on the Record Range settings. You also have the option of using the View and Output Definition feature to customize reports with the appearance and information you want.

To quickly mail an object view using the Mail option in the Windows Client

1. Click the object in the Object Tree view.
The object view appears.
2. Click the Mail Report icon () from the toolbar of the object view.
The Record Range page of the Output Report wizard opens.
3. Indicate how many rows of information you want included in the attachment report.
4. Click Next to open the e-Mail page. It opens with the box next to e-Mail checked and the Define mail addressee link highlighted.

5. Click Next to open the Destinations e-Mail page, as shown in the following sample:



Note: If you have defined a Mail to Address in the (global) Windows Client Options feature then that defined email address is displayed in the e-Mail Destination page.

6. Provide the email address, subject, body text to be included in the email, and file format of the attachment object view report, then click Perform.

The e-Mail Destination page closes. An email is created and sent with the object view report attached.

Note: For more information about the Output Report dialogs, click the Help icon in the Output Reports wizard.

Other Standard Features

In addition to object views and related view options there are many additional standard features provided with both the Windows Client and the Web Client. These additional features can be found on the main window Menu Bar or Toolbar.

Windows Client

Windows Client additional features are explained in more detail in the *CA Vantage SRM Windows Client Guide* and the Windows Client *Help About Window* online help system.

Web Client

The Web Client also provides a Scheduler feature. End-users can create output report schedules using the Customize Reports wizard. Schedules and scheduled items can be managed using the Schedule Status feature found in the Tools menu. The Web Client Scheduler currently does not provide a JCL Management feature. The Web Client Scheduler feature is explained in more detail in the *CA Vantage SRM Web Client Guide* and the *Web Client Navigation* online help system.

The following sections give a short explanation to the Windows Client Scheduler and JCL Management features.

Scheduler

Both the Windows Client and the Web Client have Schedulers. The Schedulers provide a consistent set of scheduling services for all output activities within the user-interfaces. You can schedule events by month, week, day, hour, and minute.

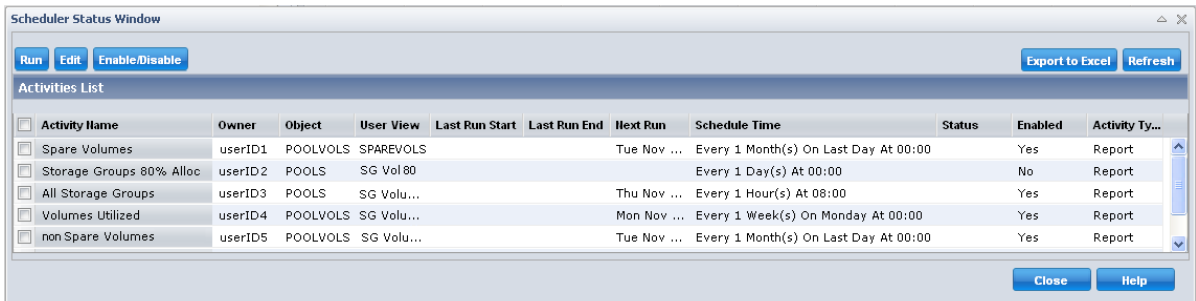
For example, suppose you wanted to be kept up to date on the scratch status of volumes by displaying a daily report on your web site. To do this, you could schedule a report based on the Volumes object to run every morning at 9:00 AM and set the Destination of the report to Web Publishing in the Windows Client, or Publish to Web in the Web Client. With this setup, the user-interface automatically runs a report on current volume activity every morning and publish the web report on your web server.

Note: For more information about Web Publishing using the Windows Client, see the *CA Vantage SRM Windows Client Guide*. For more information about publishing reports to a web server using the Web Client, see the *CA Vantage SRM Web Client Guide*.

Both the Windows Client and the Web Client have Start Scheduler and Stop Scheduler options found under their Tools options. And the Windows Client has the Schedule List option and the Web Client has a Schedule Status option found under their Tools options which you can use to manage the different user-interface's scheduled items.

The Windows Client also has the Start Scheduler icon and the Schedule List icon in the Windows Client main menu Toolbar.

The following is an example of the Web Client Scheduler Status Window displayed when you select the Schedule Status option in the Tools menu:



The following is a sample of the Windows Client Schedule List window that is displayed when you select the Schedule List icon in the main toolbar, or the Schedule List menu item from the Tools menu:

	Object	User View Name	Schedule	Host	Next Run	Last Run
1	Storage Groups	Collector	Every Day At 08:00	C111111S1111	7/30/2013 8:00:00 AM	
2	Storage Groups	Collector	Every Time Host Collects New Data	C111111S1111		
3	Storage Groups	Maintenance	Every Week On Sunday At 06:00	C111111S1111	8/4/2013 6:00:00 AM	
4	Join Trend Data and Spare Volumes for Storage Groups	Collector	Every Day At 13:11	C111111S1111	7/30/2013 1:11:00 PM	7/29/2013 1:11:00 PM
5	Join Trend Data and Spare Volumes for Storage Groups	Collector	Every Time Host Collects New Data	C111111S1111		7/29/2013 1:11:00 PM
6	Join Trend Data and Spare Volumes for Storage Groups	Maintenance	Every Week On Sunday At 06:00	C111111S1111	8/4/2013 6:00:00 AM	

Records: 10 | 7/29/2013 13:29

Schedule List Dialog Toolbar Options

The Web Client Scheduler Status Window provides the following options:

Run

Runs the selected scheduled activities immediately.

Edit

Modifies a Schedule.

Enable/Disable

Enables or disables the selected schedules.

Export to Excel

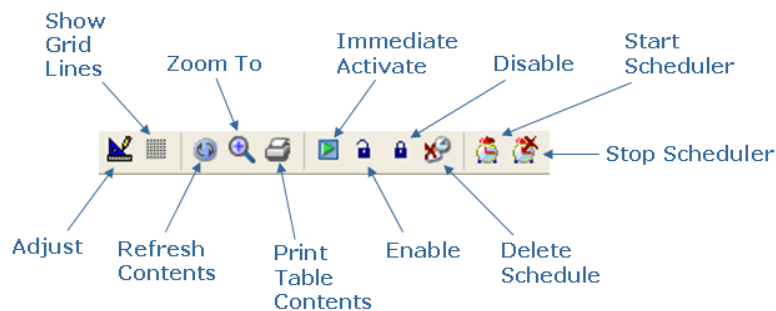
Exports the information displayed in the Activity List table.

Refresh

Refreshes the information displayed in the Activity List table with the latest data from the web application database.

Note: For more information about the Web Client Scheduler Status Window, see the *CA Vantage SRM Web Client Guide*.

The Windows Client Schedule List dialog provides the following toolbar options:



Note: For more information about the Scheduler and Schedule List, see the *CA Vantage SRM Windows Client Guide* and the *Help on Windows* online help system.

JCL Management

You can submit jobs manually from the Windows Client, either immediately or at a scheduled time. When you create a job (JCL stream) to submit, you determine the type of job being submitted, the number of steps, and so on. The job can involve your CA Vantage GMI enabled CA product, standard IBM utility programs, your own utility programs, or any combination of these. You can also use IEFBR14 jobs for testing purposes.

Note: Currently, the Web Client does not have a JCL Management feature.

The Windows Client helps you specify substitution variables (symbolic parameters) in the sample JCL you provide, allowing you to create generalized model JCL.

CA Vantage GMI provides two options for managing your JCLs:

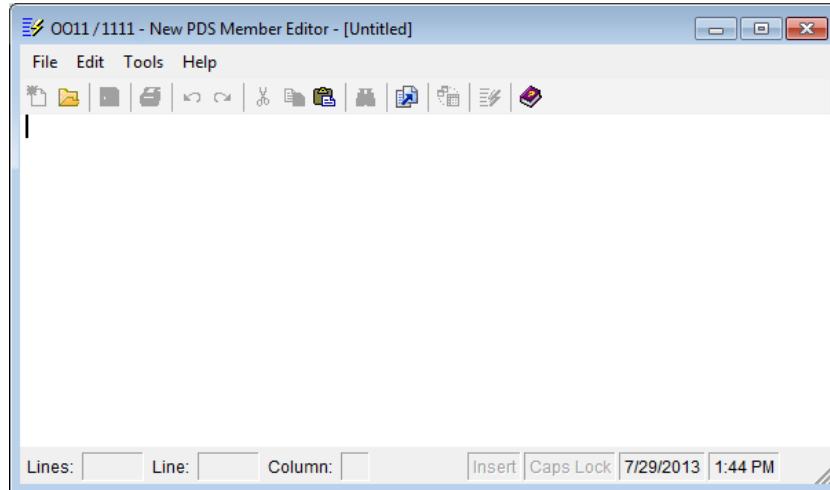
- The Member Editor (Submit) function
- The JCL Model List feature

The Member Editor (Submit) Function

The Windows Client Member Editor (Submit) function under the z/OS menu in the Main Window can be used to manage your JCLs. You can use it to specify substitution variables (symbolic parameters) in your sample JCLs. It has a drag-and-drop feature that allows you to drag rows from object displays and drop them onto a JCL template in the Edit dialog. When you drag and drop the rows, the variables from the rows are substituted into the template. You can also use the Member Editor (Submit) function to submit jobs manually, either immediately or at a scheduled time.

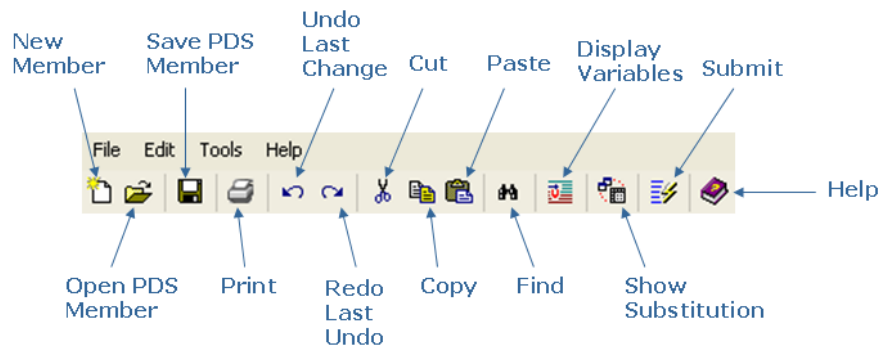
Note: Currently, the Web Client does not have a Member Editor (Submit) function.

The following is a sample of the Windows Client New PDS Member Editor dialog that is displayed when you select the Member Editor (Submit) function under the z/OS menu option.



PDS Member Editor Dialog Toolbar Options

The PDS Member Editor dialog provides the following toolbar options:



Note: For more information about PDS Member Editor options, click the Help icon on the PDS Member Editor dialog Toolbar.

The JCL Model List Feature

The Windows Client JCL Model List feature helps you manage JCL. The JCL Model List feature provides the same functionality as the Member Editor (Submit) function however it presents your JCL working environment (the Object Table, the Associated JCL Members, the Substitution Variable List, and the PDS Member Editor) in one window so that working with your JCL is much easier.

Note: Currently, the Web Client does not have a JCL Model List feature.

You can use the Windows Client JCL Model List feature to select JCL models to be used by objects or a group of objects using pattern matching. These models can be used to perform actions or mainframe management functions in batch jobs. The models can contain object variables that are substituted upon request or at submit time.

You can start the JCL Model List feature two ways, from the Object Tree Pop-up Menu or from the object view Toolbar.

To start the JCL Model List feature from the Object Tree pop-up menu in the Windows Client

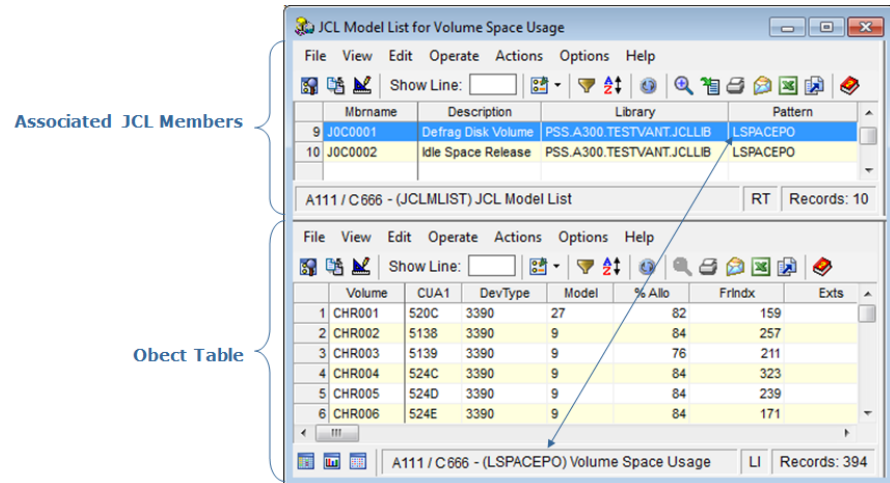
1. Right-click an object in the object tree.
The Object Tree pop-up menu appears.
2. Click the JCL Model List option.
The JCL Model List dialog appears.

To start and use the JCL Model List feature from the object view Toolbar

1. Click the object in the object tree.
The Object view appears.
2. Click the down arrow next to the Definitions icon in the object view Toolbar.
The Definitions drop-down menu appears.

- Click the JCL Model List option.

The JCL Model List dialog appears. The JCL Model List dialog displays the object data and the list of JCL members associated with that object in separate panes as shown in the following sample:



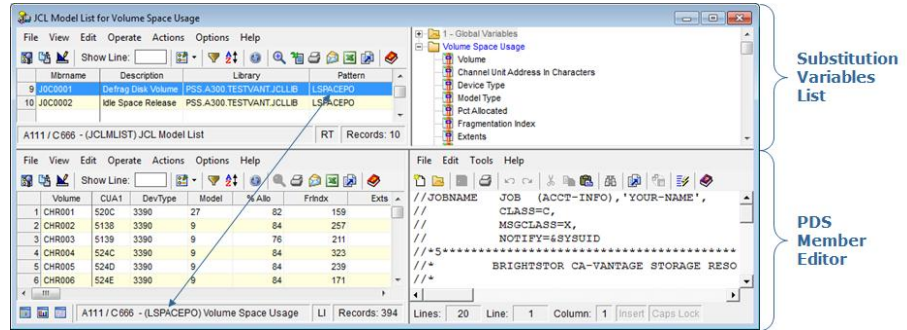
The Object Table pane displays the object selected. You can use the object view menu options in the pane to change the object view, such as sort, filter, zoom, and so on.

The Associated JCL Members pane displays the JCL models you have created and linked to the object selected. You can use the Associated JCL Members Action options to modify the JCL Model information displayed in the pane, add new JCL models, and to delete JCL Models.

Note: For more information about the Associated JCL Members pane, click the menu bar Help option and select Help About Object.

- Double-click a model line, and two additional panes appear in the JCL Model List dialog; the Substitution Variable List for the object, and the PDS Member Editor with the model JCL.

The following sample shows how the JCL Model List displays all 4 panes in the JCL Model List dialog.



Using the PDS Member Editor pane you can edit the model JCL, create new JCL Models, insert variables, substitute variables with object information, submit the JCL, and so on.

Note: For more information about PDS Member Editor options click the Help option on the PDS Member Editor pane Menu Bar.

- Click your cursor in the JCL in the PDS Member Editor pane where you want a variable to be inserted, and then double click the desired variable in the Substitution Variable List pane.

The variable appears in the PDS Member Editor pane where you indicated.

- Repeat step 5 until you have included all your variables in the PDS Member Editor pane.

Now you are ready to substitute the variables in your JCL with object line information.

- Click a line or multiple lines in the Object Table pane, then drag-and-drop them into the PDS Member Editor.

When you do this, a new PDS Member Editor dialog is opened with the resulting JCL; that is, the field values from your selected object table lines are substituted into the variable locations in a copy of your JCL model in a new PDS Member Editor dialog.

- Click the Submit icon in the PDS Member Editor Toolbar when your JCL is complete and you are ready to submit it.

A message dialog appears advising that your JCL has been submitted.

Note: For more information about working with the JCL Model List, see the *CA Vantage SRM User Guide*.

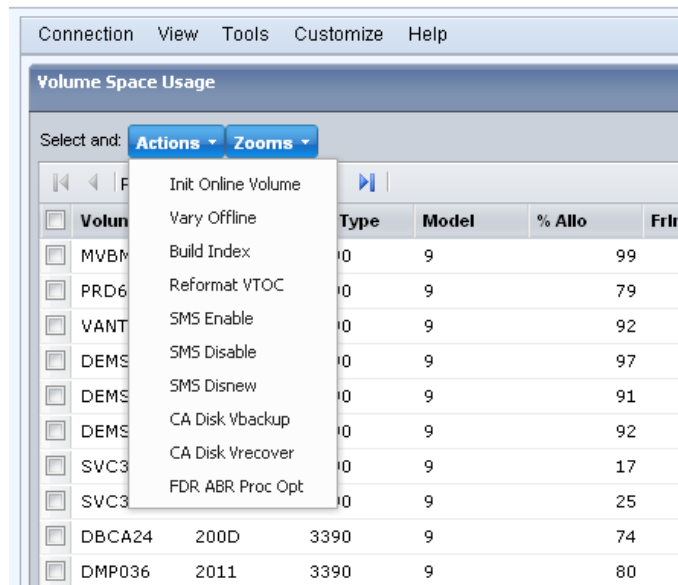
User-Interface Object Action Options

The Actions option is only available for certain objects and it is used to perform actions on specific object items. The actions available for an object relate to specific functionality of the object being accessed.

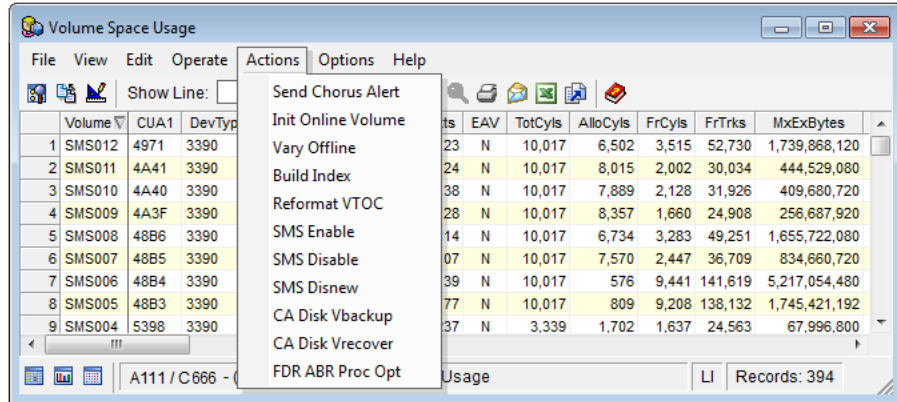
Note: If the Windows Client *Help on Object* or the Web Client *Object-object_name-Help* for an object lists Actions, but the Actions menu option does not display any Actions, it is because your CA Vantage GMI license does not authorize you to use them.

Example: Display of the Action menu of the Volume Space Usage object

The following is a sample of the Volume Space Usage object Action menu displayed in the Web Client:



The following is a sample of the Volume Space Usage object Action menu displayed in the Windows Client:



Note: When object actions are performed, security checks are made with the proper access levels. The user ID for each security check will be either the user ID associated with the CA Vantage GMI started task, or the user ID that owns the script (the person who created or last modified it). For more information about the security system, see the description of system parameter SECURSCR in the *CA Vantage SRM Configuration Guide*.

Display Actions Dialog Feature

You can use the actions dialog feature to perform actions on certain objects.

To start the Actions dialog feature

1. Click an object in the Object Tree.

An object in Table View appears in your user-interface window.

2. Select a line or group of object data in the object Table that you want to perform the action on.

The line or lines of object data in the Table View is selected.

3. If you are using the Windows Client, click Actions in the Table View Menu Bar. If you are using the Web Client, click Actions in the object Menu Bar.

The Actions drop down list appears.

4. Click the Action you want to perform.

The Actions dialog appears.

Note: For more information about how to use the Actions dialog view the *Help on Window* online help system in the Windows Client or the *Navigation* online help system in the Web Client. For more information about an object and available object actions view the *Help on Object* online help system in the Windows Client or the *Object-object_name-Help* online help system in the Web Client. If the *Help on Object* for an object or the *Object-object_name-Help* online help system lists Actions, but the Actions menu option does not display any Actions, it is because your CA Vantage GMI license does not authorize you to use them.

User-Interface Online Help Systems

Both the Web Client and the Windows Client have two types of online help systems:

Windows Client

Help on Window (Help About Window)

Provides information on how to use Windows Client features and if you click Help About Window from a window or dialog Help menu option it provides help about the opened window or dialog. This online help system also has a search facility.

Note: From the object tree this help is called Help on Window and when you have a window open and you click the Help menu option this is called Help About Window.

Help on Object (Help About Object)

Provides object specific information. It includes a description of the object, actions available, and information about the object data fields in the object.

Note: If the *Help on Object* for an object lists Actions but the Actions menu option does not display any Actions it is because your CA Vantage GMI license does not authorize you to use them.


Note: From the object tree, this help is called Help on Object, and when you have the object open in a window and click the Help menu option, this is called Help About Object.

To access the Windows Client Help on Window (Help About Window) online help system

1. Click the Help icon () displayed in an open window or dialog.

The help topic that pertains to that window or dialog is displayed.

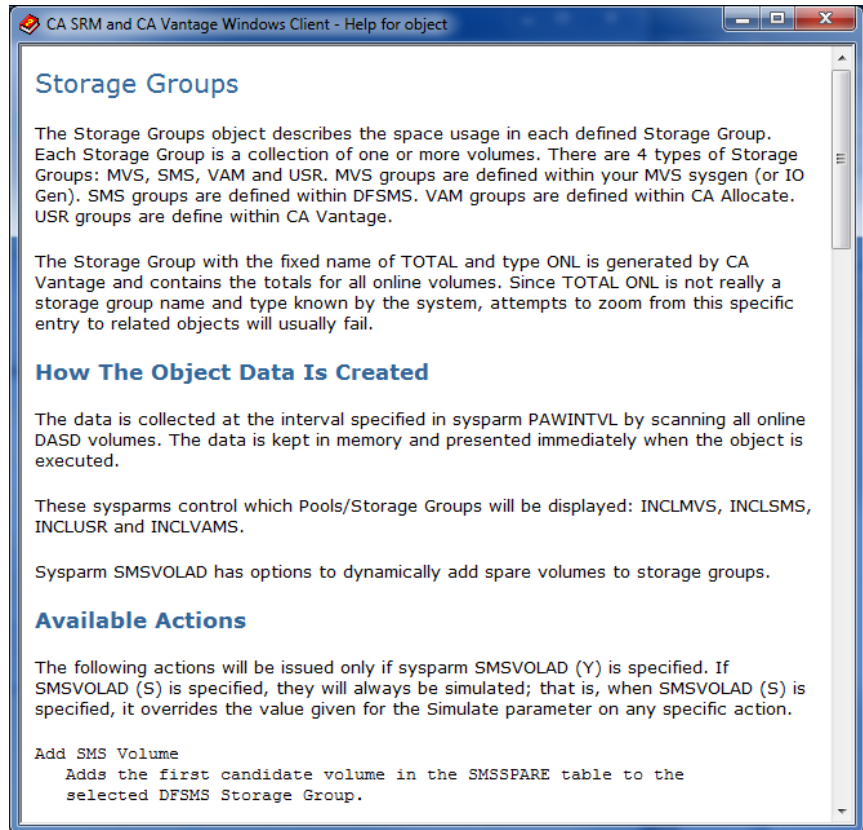
Most windows and dialogs also have a Help menu option where you can select Help About Window to display the help topic that pertains to that window or dialog is displayed.

You can also open this online help system from the main Windows Client menu by clicking the Help menu option and selecting CA SRM and CA Vantage Help Topics or by clicking the Help icon () in the main Windows Client toolbar.

To access the Windows Client Help on Object (Help About Object) online help system

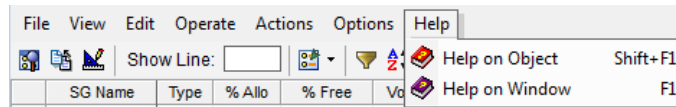
1. Right-click on an object in the Object Tree dialog.
The Object pop-up menu appears.
2. Click Help on Object.

The Help on Object system appears showing the help page related to the object selected as shown in the following sample of the Help on Object for the Storage Groups object.



Example: Display help from an object view

You can also access the Help on Object (Help About Object) and the Help on Window (Help About Window) online help systems from the Help menu item in the object view Menu Bar as shown in the following sample of the an object table view Menu Bar.

**Web Client****Navigation Online Help**

Provides information on how to navigate the Web Client and use Web Client features. If you click Help then Navigation from a window, wizard, or dialog, the online Help topic displayed provides help about the opened window, wizard, or dialog. This online help system also has an index and a search facility.

Object - *object_name* - Help

Provides object specific information. It includes a description of the object, actions available, and information about the object data fields in the object.

Note: If the Object - *object_name* - Help for an object lists Actions, but the Actions menu option does not display any Actions, it is because your CA Vantage GMI license does not authorize you to use them.

To access the Web Client Navigation online help system

Click Help and then Navigation in the object Menu Bar, or in the opened window, wizard, or dialog. The help topic that pertains to that open window, wizard, or dialog is displayed. The help topic displayed when you click Help and then Navigation in the object Menu Bar is the Welcome page.

You can also open this online help system by clicking Help in the top line of the main Web Client window.

To access the Web Client Object - *object_name* - Help online help system

Click Help and then Object - *object_name* - Help on the object Menu Bar. The Object - *object_name* - Help appears showing the help page related to the displayed object.

Chapter 2: Setting Up CA Vantage GMI

This chapter explains how to set up CA Vantage GMI.

This section contains the following topics:

[CA Vantage GMI Components](#) (see page 63)

[Install and Configure CA Vantage GMI](#) (see page 64)

[Start and Log In to the Windows Client](#) (see page 66)

[Define a z/OS Host](#) (see page 70)

[Connect and Log In to the z/OS Host](#) (see page 74)

[Define the Data Collection Mode](#) (see page 75)

[Closing the Windows Client](#) (see page 77)

CA Vantage GMI Components

CA Vantage GMI consists of the following two components:

z/OS Server

Installed on the mainframe.

User-Interface (PC) Clients

The following user-interface clients are available:

Windows Client

This client is a Windows-based user-interface. This client provides full functionality and when you install the Windows Client you also install the Config Client and the CA Vantage SRM documentation set. You can use the Config Client to set CA Vantage SRM parameters.

Web Client

This client is a web-based user interface. The client can be used from any PC with internet access to the web client application server. You can access the CA Vantage SRM documentation set from the web client. The current web client provides partial functionality compared to the Windows client.

Note: Install the Windows client first and then the web client. The Windows client contains the Config client which you can use to set CA Vantage SRM system parameters.

3270-based interface (View 3270 Client)

This client provides partial functionality that is limited to:

- User-driven functionality of view and analysis
- Filtering and sorting, zooming
- Ability to initiate actions on selected entries

Note: The View 3270 Client is considered a character-based user-interface, not a graphic-based user-interface, so it is not discussed in this guide. For View 3270 Client installation and configuration information, see the chapter "Configuring CA Vantage GMI" in the *CA Vantage SRM Configuration Guide*. For more information about using the View 3270 Client, see the chapter "Navigating the View 3270 Client" in the *CA Vantage SRM User Guide*.

Install and Configure CA Vantage GMI

In order to use CA Vantage GMI you must install and configure both the z/OS component and at least one of the User-Interface (PC) Client components (you can use the Windows Client, the Web Client, or both).

Note: If you have already installed CA Vantage GMI components for one of the other CA Vantage GMI enabled products, there is no need to install the components again, however you must perform step 4 in the following procedure for the CA Vantage GMI qualified product. If you are installing the components for the first time, ensure that you have received the proper installation materials for the z/OS and the User-Interface (PC) Client components. If you do not have all the installation materials you need, then contact CA Support at <http://ca.com/support>.

To install and configure both components of CA Vantage GMI

Note: System software and hardware requirements for both components of CA Vantage GMI can be found in the *CA Vantage SRM Installation Guide*.

1. Install the z/OS server as described in the *CA Vantage SRM Installation Guide*.

The z/OS server is installed on your z/OS system.

2. Install the Windows Client as described in the *CA Vantage SRM Installation Guide*.

The Windows Client is installed on at least one PC.

Note: When you install the Windows Client, you also install the CA Vantage SRM Config Client which you can use to set CA Vantage SRM system parameters. If you want to use the Web Client, we suggest you install it after you have completed step 8. However, you can install the Web Client after you have completed step 3 and to be able to use it to work with CA Vantage GMI enabled product objects you must complete step 4 for each CA Vantage GMI enabled product. For more information about installing, navigating, and using the Web Client, see the *CA Vantage SRM Web Client Guide*.

3. Configure the parts of the z/OS server that are common to all CA Vantage GMI enabled products as described in the chapter "Configuring CA Vantage GMI" in the *CA Vantage SRM Configuration Guide*.

Common CA Vantage GMI parts of the z/OS server are configured on your z/OS system.

4. Configure the parts of the z/OS server that are specific to your CA Vantage GMI enabled product according to the chapter "z/OS Host Configuration" in this guide.

Your CA Vantage GMI enabled product objects are defined for retrieving your CA Vantage GMI enabled product object data by the CA Vantage GMI user-interface.

Note: If you want to use the Web Client you can install it now or after you complete step 8. For more information about installation, starting, navigation, and using the Web Client, see the *CA Vantage SRM Web Client Guide*.

5. Start the Windows Client according to the section [Start and Log in to the Windows Client](#) (see page 66).

The Windows Client is up and running on your PC.

6. Define z/OS host connections as described in the section [Define a z/OS Host](#) (see page 70).

At least one z/OS host is defined in your Host List.

7. Connect the Windows Client to a z/O host and login as described in the section [Connect and Log In to the z/OS Host](#) (see page 74).

The Windows Client is connected and logged in to a z/OS host. You can start using it to view and work with object data.

8. Define the Windows Client data collection mode as described in the section [Define the Data Collection](#) (see page 75).

Object data is automatically displayed in the object view when you open an object.

Note: The latest version of the CA Vantage SRM documentation set is available at <http://ca.com/support>. However, you can install the Windows Client first (with no configuration) and then access the CA Vantage SRM documentation set. To access the CA Vantage SRM documentation set from the Windows Client click Start, Programs, CA, CA Storage Resource Manager, Documentation, and then Manuals - z/OS, or from the Windows Client main menu Help drop-down menu click Manuals - z/OS. The CA Vantage SRM documentation set consists of the following documents:

- *CA Vantage SRM Best Practices Guide*
- *CA Vantage SRM Configuration Guide*
- *CA Vantage SRM Installation Guide*
- *CA Vantage SRM Message Reference Guide*
- *CA Vantage SRM Reference Guide*
- *CA Vantage SRM Release Notes*

- *CA Vantage SRM User Guide*
- *CA Vantage SRM Web Client Guide*
- *CA Vantage SRM Windows Client Guide*

Start and Log In to the Windows Client

If you want to use the Windows Client for your CA Vantage GMI session then you must start it.

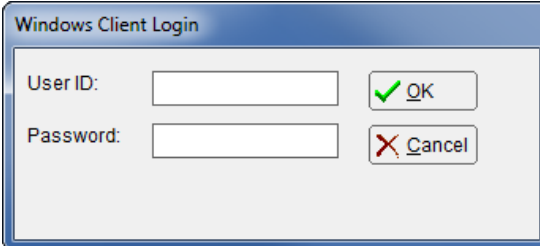
By default, when you start the Windows Client, you automatically log in as the ADMIN user (the default administrator), no Windows Client Login dialog appears, and the Windows Client Main Window appears. However, if this default was changed to require a specific user ID and password, the Windows Client Login dialog appears when you start the Windows Client and you must provide a valid user ID and password.

Note: For more information about creating and maintaining Windows Client logins, see the section User Manager in the *CA Vantage SRM Windows Client Guide*.

To start and log in to the Windows Client

1. Click Start, Programs, CA, CA Storage Resource Manager, and select Windows Client.

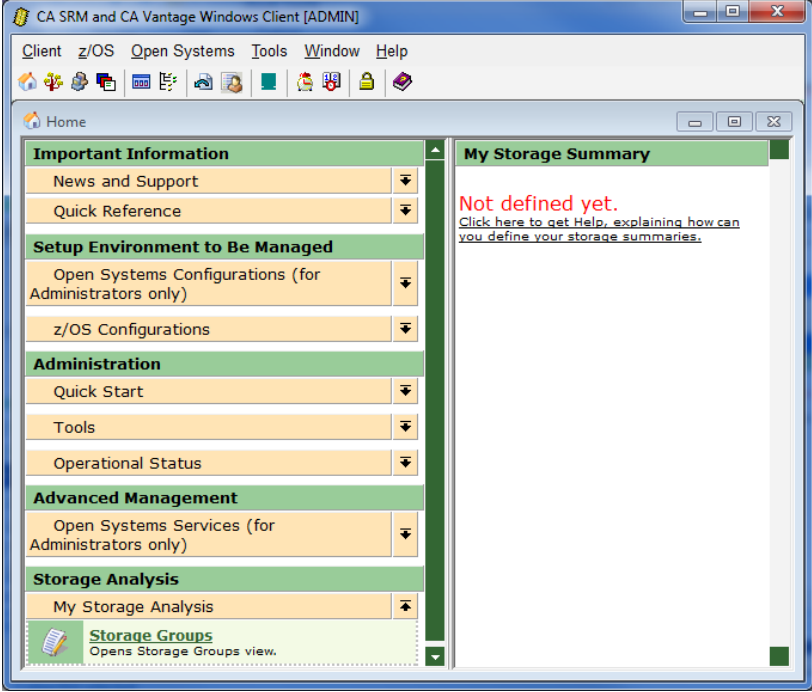
The Windows Client Login dialog appears as shown in the following sample.



The image shows a screenshot of a Windows dialog box titled "Windows Client Login". The dialog box has a light blue title bar and a white background. It contains two input fields: "User ID:" and "Password:". To the right of the "User ID:" field is an "OK" button with a green checkmark icon. To the right of the "Password:" field is a "Cancel" button with a red "X" icon.

- 2. Type in your Windows Client User ID and Password and click OK.

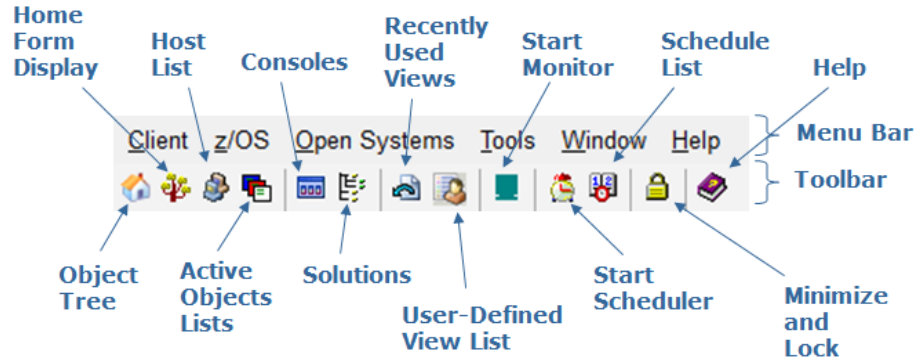
The Windows Client Main Window appears with the Home Form dialog displayed as shown in the following sample.



To start the Windows Client, click Start, Programs, CA, CA Storage Resource Manager, and select Windows Client. If no Windows Client login is required, the Windows Client Main Window appears with the Home Form dialog displayed.

Windows Client Menu Bar and Toolbar Options

The top of the main window of the Windows Client has the following Menu Bar and Toolbar options:

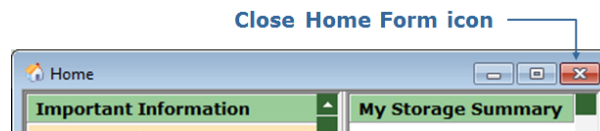


Note: For more information about the Windows Client Menu Bar and Toolbar options, see the *CA Vantage SRM Windows Client Guide* or click the Help icon on the Windows Client Menu Bar.

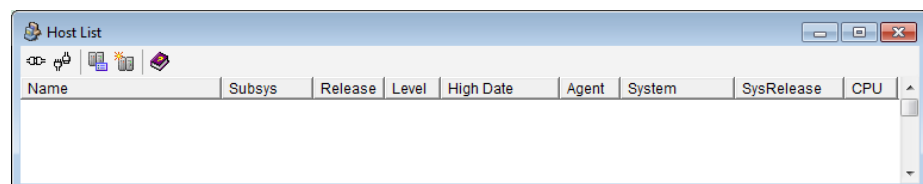
The Windows Client View


Many Windows Client users prefer to close the Home Form window and display the Host List and the Object Tree windows.

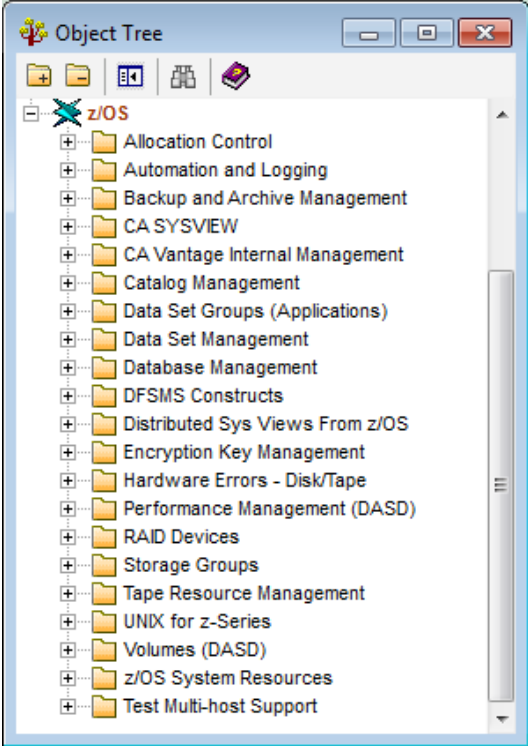
To close the Windows Client Home Form window click the Close icon located at the top right hand corner of the Home Form window, as shown in the following sample:



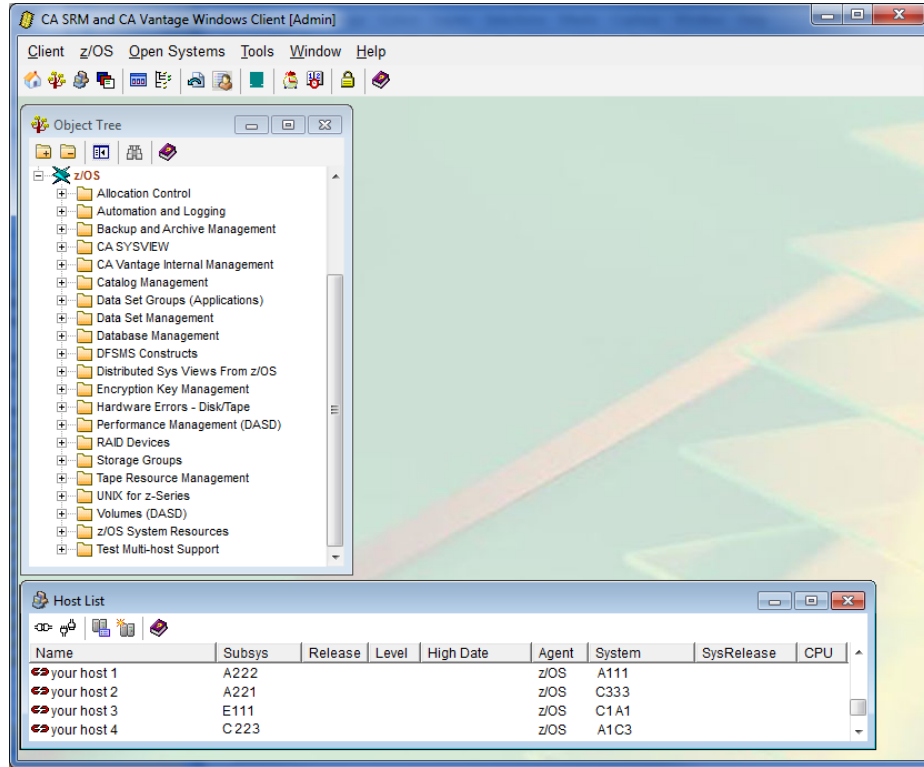
To display the Host List window click the Host List icon () located in the Windows Client Toolbar. The following is a sample of an empty Host List window:



To display the Object Tree window click the Object Tree icon () located in the Windows Client Toolbar. The following is a sample of the Object Tree window:



You can resize and move displayed windows in the Windows Client the same as you resize and move opened windows on your PC desktop. Arrange the Host List and Object Tree windows so they display as shown in the following screen capture sample.



Define a z/OS Host

After starting the Windows Client you need to connect the Windows Client to the z/OS server component. In order to connect the Windows Client to the z/OS server component, you must first define the z/OS server or servers that you plan to use. The Windows Client Host List feature is used to define z/OS server connections.

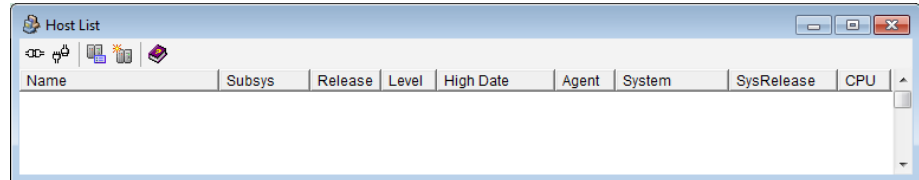
You can define as many z/OS servers as you want and you can simultaneously connect to as many z/OS servers as you want (as long you have installed and configured the z/OS server component on them).

To define a z/OS host

Note: The following procedure assumes you have started the Windows Client and the Host List window is not displayed. If the Host List window is already displayed then you can skip step 1.

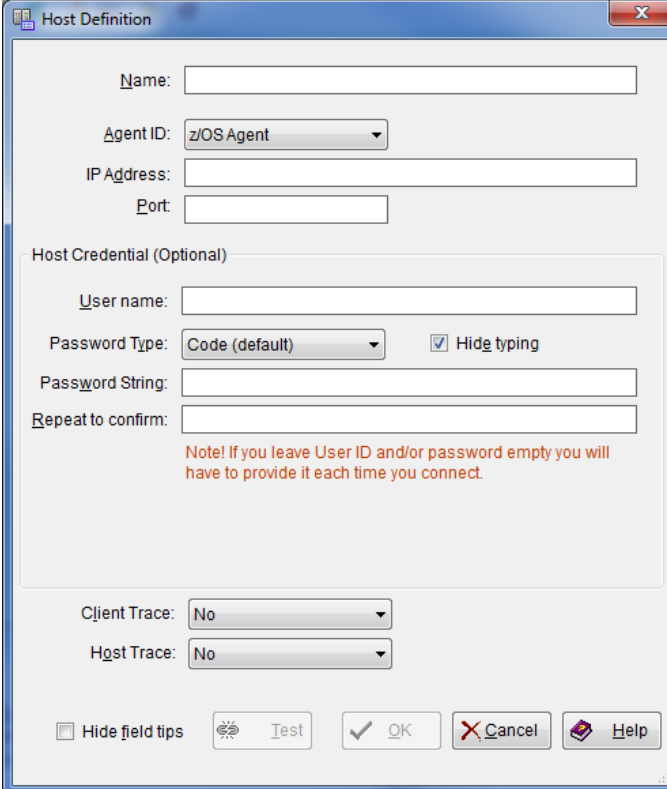
1. Click the Host List icon () in the Windows Client toolbar.

The Host List dialog appears as shown in the following sample.



2. Click the New Host icon () in the Host List window toolbar.

The Host Definition dialog appears as shown in the following sample.



3. Complete the Host Definition dialog, the field options are:

Name

Provides the Host Name displayed in the Host List dialog.

Agent ID

Provides the name of the agent that collects data from the host. Select z/OS Agent if it is not already displayed.

IP Address

Defines the IP address or server name of the z/OS host to which you are connecting.

Port

Defines the port number of the z/OS host to which you are connecting.

User name

(Optional) Provides the user ID, which is sent to the host in encrypted form. If you leave the user name, password, or both fields empty, you will have to provide them each time you connect to the host. However, if the host will be used in scheduled operations this information is required.

Password Type

Select the password type in the Password Type drop-down list. The host definition supports the following types of passwords:

Code (default)

A combination of up to 8 characters.

Phrase

A passphrase of up to 100 characters.

Token+PIN

A two-factor RSA authentication token and PIN of up to 8 characters each.

Password String

(Optional) Provides the password string, which is sent to the host in encrypted form. If you do not specify a password string then you must enter it every time you try to connect the Windows Client to the z/OS host.

Note: You also have the option of providing the z/OS host user ID and not the password when setting up your Host Definition; this is often done at sites where security policies require Passwords to be changed periodically. If the host will be used in scheduled operations, the password string is required.

Confirmation

Renter the password string. If you provide a Password String then you must provide the same password string in the confirmation field.

Client Trace

(Optional) Indicates if the system should save the messages relating to host-client communication in a log file. For more information about this field click the Help icon. Normally you will only select this if requested to do so by CA Support.

Host Trace

(Optional) Creates a trace on the host of all the messages exchanged between the z/OS host and the Windows Client. For more information about this field click the Help icon. Normally you will only select this if requested to do so by CA Support.

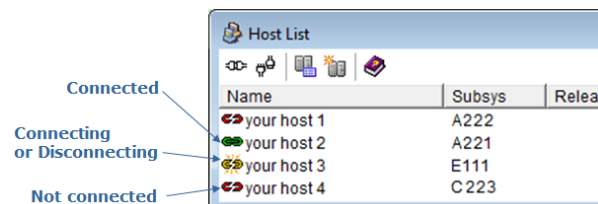
4. Click Test to test your connection information.

The Windows Client advises you if your connection to the z/OS host is successful.

5. Click OK.

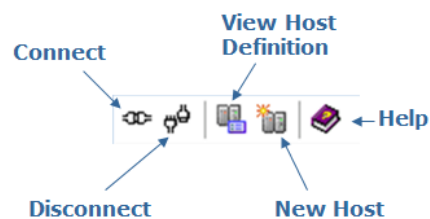
The Windows Client stores the host definition. The new host definition appears in the Host List window. The Host List window displays all your defined hosts and their connection status.

The following is a sample of the Host List window showing the different connection status icons.



Host List Dialog Toolbar Options

The Windows Client Host List dialog provides the following toolbar options:




Connect and Log In to the z/OS Host

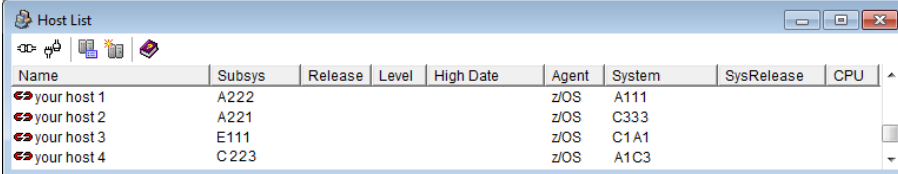
After you start the Windows Client and have defined z/OS host connections, you can then connect the Windows Client to a z/OS host and log in to the z/OS host. Once that is done you can start using CA Vantage GMI.

To connect and log in to the z/OS host

Note: The following procedure assumes you have predefined your z/OS hosts and they are displayed in the Host List window. If you do not have predefined hosts in the Host List window then see the section [Define a z/OS Host](#) (see page 70). If the Host List window is already displayed in your Windows Client window then skip step 1.

1. Click the Host List icon () in the main Windows Client toolbar.

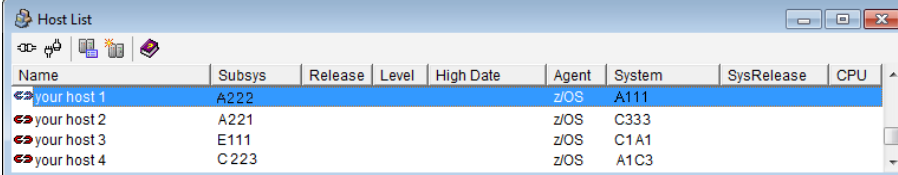
The Host List window opens. The following is a sample of the Host List window:




Name	Subsys	Release	Level	High Date	Agent	System	SysRelease	CPU
your host 1	A222				z/OS	A111		
your host 2	A221				z/OS	C333		
your host 3	E111				z/OS	C1A1		
your host 4	C223				z/OS	A1C3		



2. Select the host to which you want to log in to from the Host List window.

The selected host definition is highlighted, as shown in the following sample.

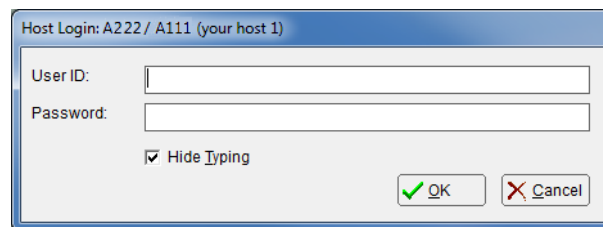


Name	Subsys	Release	Level	High Date	Agent	System	SysRelease	CPU
your host 1	A222				z/OS	A111		
your host 2	A221				z/OS	C333		
your host 3	E111				z/OS	C1A1		
your host 4	C223				z/OS	A1C3		

- Click the Connect icon () in the Host List window toolbar.



If your user ID and password were provided in the Host Definition dialog for the selected host, the Windows Client attempts to connect to the host. If the connection is successful then the connection status icon changes from the Not Connected icon () to the Connected icon (). You can begin using CA Vantage GMI and you can skip step 4.





If your user ID and password were not provided in the Host Definition dialog for the selected host, then the Host Login dialog appears as shown in the following sample dialog, and you must proceed to the next step.



- Enter a valid user ID and password in the Host Login dialog, and click OK.

The Host Login dialog disappears.


The Windows Client attempts to connect and log on to the z/OS host. When the connection and log on is complete, the connection icon in the Host List window changes from the Connecting icon () to the Connected icon (), as shown in the following sample, and you can begin using CA Vantage GMI.

Name	Subsys	Release	Level	High Date	Agent	System	SysRelease	CPU
 your host 1	A222	12.06.00	RES...	22JUL2013	z/OS	A111	01.13.00	2827
 your host 2	A221				z/OS	C333		
 your host 3	E111				z/OS	C1A1		
 your host 4	C223				z/OS	A1C3		

Note: For more information about defining hosts and connecting to hosts, see the *CA Vantage SRM Windows Client Guide* or the online help.

Define the Data Collection Mode

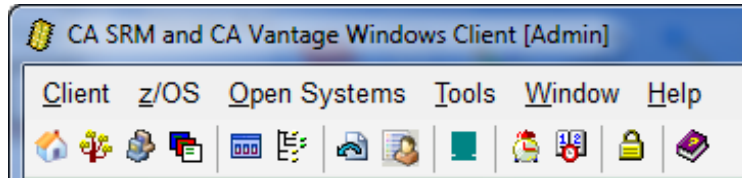
CA Vantage GMI can be configured to collect data in either Automatic or Manual mode.

- In Automatic mode, object data is collected automatically when you open an object.
- In Manual mode, object data is only collected by the Windows Client when you click the Execute icon () in the open object view Toolbar.

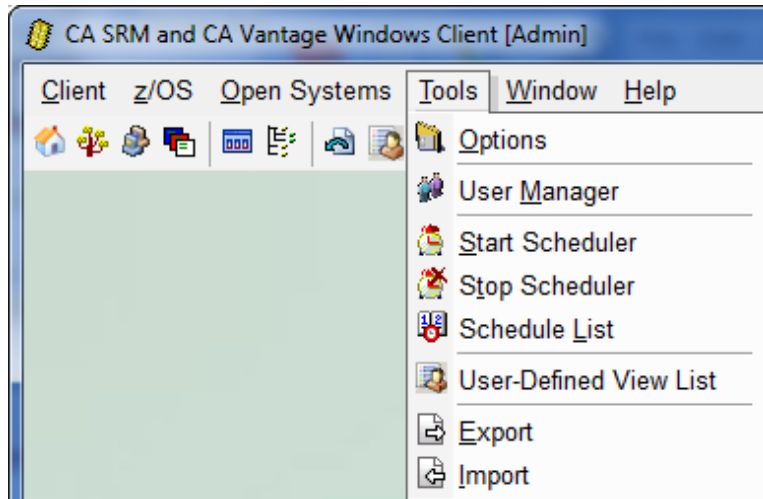
To define the data collection mode in the Windows Client

1. Click Tools in the Windows Client main window Menu Bar.

The following is a sample of the Windows Client main window Menu Bar and Toolbar.

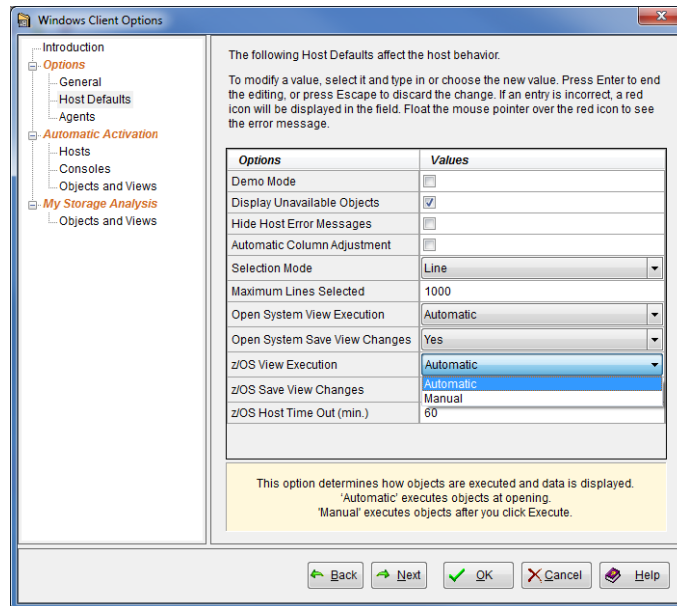


The Tools menu expands to display available items, as shown in the following sample:



2. Select Options from the Tools menu drop-down list, to open the Windows Client Options wizard.
3. Select the Host Defaults page in the navigation tree in the left-side panel of the Windows Client Options wizard.

- Select the drop-down arrow in the z/OS View Execution field, to display the options, as shown in the following sample:



- Select the mode you want the system to use and click OK.

The Windows Client Options wizard closes. When you select an object in the Object Tree the Windows Client will collect data based on the mode that you have selected.

Note: The examples in this guide assume that Automatic mode is selected.

Closing the Windows Client



When you close the Windows Client it will log you off from your connected hosts. However, when you are finished working you should disconnect from hosts first then close the Windows Client.

To close the Windows Client


- Select the host you are connected to in the Host List dialog.


The selected host is highlighted.

- Click the disconnect icon () in the Host List dialog.

The status icon of the selected host will change from connected () to disconnected ().

3. Repeat steps 1 and 2 and close all host connections.

All hosts displayed in the Host List dialog are displayed with the disconnected icon ()

4. Close the Windows Client by clicking the Close icon () in the top right hand corner of the Windows Client.

The Windows Client is no longer displayed.

Chapter 3: z/OS Host Configuration

This section contains the following topics:

[Before You Start](#) (see page 79)

[Configure CA Vantage GMI for CATLMS](#) (see page 79)

Before You Start

The instructions in this chapter assume you have performed the first two steps described in the section [Install and Configure CA GMI](#) (see page 64). Do not perform the instructions in this chapter before you have completed those steps.

After you have completed the instructions in this chapter, return to the chapter "Setting up CA Vantage GMI", and perform the rest of the steps listed in the section [Install and Configure CA GMI](#) (see page 64).

Configure CA Vantage GMI for CATLMS

A storage administrator usually performs most of the steps in the following procedure. To find the exceptions, tasks typically done by a system programmer, look for items starting with (SYSPROG).

Some steps in the following procedure involve setting security access authority, see your security administrator to confirm or establish the proper access authorities for those steps. For more information about security, see the section Actions Against Tape Related Objects in the topic "Security Topics" in the *CA Vantage SRM Reference Guide*.

To configure CA Vantage GMI for CATLMS

1. Run INSTALL Job J05TLMS.

This job copies system SCRIPT, JCLLIB, and PARMLIB members for CATLMS to the SCRIPT, JCLLIB, and PARMLIB data sets. This job is located in the CCTUSAMP library, customize it to your needs as instructed in the comments at the beginning of the member, and run it now.

2. Configure Disk Interval Scripts for CATLMS.

This product's Disk Interval service enhances system performance for vendor objects in which the vendor APIs are considered too slow for retrieving a large number of records. Tape management (volume and file) objects are in this group.

Disk Interval data sets are dynamically allocated and written with the aid of scripts. Sample scripts are distributed in the CA Vantage CCTUSAMP library.

CTSUTIL performs the following tasks:

- Create disk interval file containing VMF volume records
- Create disk interval file containing VMF MDF (data set) records
- A SYSPRINT audit report that details the number and type of records processed
- Create a z/OS name and token pair to pass the disk interval data set names to CA Vantage SRM

When you request these objects from any of this product's clients, View Mode=DI is automatically used (it is the default), and the data is read from the Disk Interval data set at a much higher speed. If you choose View Mode=RT, the slower native API is used to get the data in Real-Time. You will have to wait considerably longer to get the data.

Proper configuration involves scheduling the Disk Interval scripts to run just frequently enough to allow normal analysis Disk Interval data.

The J05TLMS job copies the following scripts from the CCTUSAMP library to your system-script library, as named by system parameter SYSTSCR. It is recommended that you enable these scripts. The header of each sample contains information on how to activate the script.

DSKTLMSU

Object: Files and Volumes

Type: DI

DSKTLMSF

Object: Files

Type: DI

DSKTLMSV

Object: Volumes

Type: DI

3. Configure the first part of the Summary Reports for CATLMS.

This product provides several tape summary reports for CATLMS. To enable these reports do the following:

Edit PARMLIB member SUMMARY to activate the reports. If this member does not exist, copy it from the CCTUSAMP library. The following is an example of part of the SUMMARY member:

```
*****
*
* TAPE MANAGEMENT SYSTEMS SUPPORTED:
*
*****
%%INCLUDE MEMBER=SUMRVIS * SUMMARY DEFS FOR CA 1 - TMC SUMMARIES
%%INCLUDE MEMBER=SUMRTLMS * SUMMARY DEFS FOR CA TLMS SUMMARIES
%%INCLUDE MEMBER=SUMRRMM * SUMMARY DEFS FOR DFSMSRMM SUMMARIES
%%INCLUDE MEMBER=SUMRZAR * SUMMARY DEFS FOR ASG-ZARA SUMMARIES
```

To activate the summaries for CATLMS, delete the asterisk in column 1 in the following line:

```
%%INCLUDE MEMBER=SUMRTLMS * SUMMARY DEFS FOR CA TLMS SUMMARIES
```

Note: Additional configuration is required to complete the configuration of Summary Reports for CATLMS as described in subsequent steps.

4. Configure the CATLMS CTSXUTIL Extract utility job to extract CATLMS Volumes and Files data by performing the following steps:

- a. The data sets to contain the CATLMS Extract utility information is allocated as part of the job J05TLMS.

The VMF file is identified by the TLMSVMF system parameter and the extract files are identified by the CTSTLMSF (files/data sets) and CTSTLMSV (volumes) system parameters.

Before submitting the job, carefully review the second job-step in J05TLMS that pre-allocates the CTSDSN and CTSVOL data sets. The comments in the job give you a method to calculate the size of the data sets.

- b. Create member TLMSDSKU in your JCLLIB by copying it from the CCTUSAMP library. This job, which executes the CA CTS utility, CTSXUTIL, and has two steps; one to run the create the extract data sets, and one to set the Disk Interval token (that is, update CA Vantage SRM with the date and time of when the job was run).

Note: The execution parameter value of VMF must be specified on the EXEC statement of the JCLLIB member. For example:

```
//stepname EXEC PGM=CTSXUTIL,PARM='VMF'
```

- c. Ensure that the output data sets in TLMSSDKU match the names specified in the CTSTLMSF and CTSTLMSV system parameters.

CTSTLMSF (%%DSNPF%%.CTSDSN)

CTSTLMSV

(%%DSNPF%%.CTSVOL)

Automate the TLMSSDKU job to extract the data by using the system script DSKTLMSSU, distributed with the system, to schedule and run the TLMSSDKU job when necessary.

If DSKTLMSSU is not in your system-script library, copy it from the CCTUSAMP library.

To enable this script do the following:

- a. Edit system-script DSKTLMSSU and modify the following statement:

```
SUBSTITUTE_JCL=DSN=%%DSNPF%%.JCLLIB,MEMBER=TLMSSDKU
```

Ensure that the CTSTDB parameter points to the data set that contains your VMF input dataset and the CTSDSN and CTSVOL data set names specify the correct output dataset names.

To maximize efficiency the DCB parameters, BLKSIZE= and BUFNO= parameters for the CTSDSN and CTSVOL disk interval files should specify using the following general guidelines:

- BLKSIZE should be set to a relatively high-value (in multiples of the VMF LRECL of 500 bytes) to minimize I/O and pass more records to the object creator program.

- BUFNO should be set equal to the multiple of the BLKSIZE and is calculated by dividing the BLKSIZE by 500. For example a BLKSIZE of 27500 would result in the specification of 55 buffers.

This DSKTLMSSU script is configured to be fired immediately after the CA Vantage SRM system is (re)started. This will build the CA TLMS Disk Interval data sets.

This script will automatically FIRE every six hours to refresh the CA TLMS Disk Interval Datasets. To change the frequency, alter the following script statement to meet your needs:

```
PERFORM_FVT_PROC=INTERVAL=mmm
```

Or use the System Script Builder wizard in the Windows Client to set these values. To use this wizard, click z/OS Menu, Object Scripting, System Scripts, and then select the DSKTLMSSU script.

- b. To refresh the script, issue the following command:

```
F SAMS,AUTO,REFRESH=SYSTEM,DSKTLMSSU
```

- c. To execute the script on demand, issue the following command:

```
F SAMS,AUTO,FIRE=SYSTEM,DSKTLMSU
```

Or use the Fire Script action from the object displays on one of the clients.

- 5. Configure Tape Summary Report Filters for CATLMS.

Note: All the FILTTLxx members must be created and customized for tape volume summaries to work properly. If these members do not exist in your PARMLIB yet, copy them from the CCTUSAMP library.

The following PARMLIB members are for the CATLMS Tape Volume Summaries:

FILTTLMB

Used to qualify active tapes (those not in scratch status) into groups depending on the number of MB written to the tape.

FILTTLTD

Used to qualify active tapes (those not in scratch status) into groups based on the first data set name written to the tape.

FILTTLJO

Used to qualify active tapes (those not in scratch status) into groups based upon the last job name that used the tape.

FILTTLMC

Used to qualify tapes into groups depending on the SMS management class of the tape.

- 6. Perform the following steps to configure the FILTTLxx Members:

- a. Observe that the sample member FILTTLTD member looks like the following:

```
*
SET_SUM_LABEL=GRP PSS.A300./
SET_SUM_FILTER=VBSCRCH = N AND 'DATA SET NAME' INCL 'PSS.A300./'
*
SET_SUM_LABEL=GRP2 DMS0S./
SET_SUM_FILTER=VBSCRCH = N AND 'DATA SET NAME' INCL 'DMS0S./'
*
SET_SUM_LABEL=G3 SYS4S.MVSS./
SET_SUM_FILTER=VBSCRCH = N AND 'DATA SET NAME' INCL 'SYS4S.MVSS./'
```

- b. Customize this member to suit your installation by creating groups consisting of the following keywords:

```
SET_SUM_LABEL=
SET_SUM_FILTER=
```

A maximum of 1000 such groups is allowed.

SET_SUM_LABEL=

Gives the grouping its *group name*. In the example above, the group name for the first group is *GRP PSS.A300./*. A maximum of 16 characters can be used to describe the group name.

SET_SUM_FILTER=

Qualifies the tapes into the different groups you create. Use the `VBSCRCH = N` filter to select only active tapes in the group (not tapes with *scratch status*). For a list of other field variables that can be used in the filter, run the GENMAP utility for object VISTLMSV. See member MAPPINGS in the CCTUSAMP library for this utility. All the substitution variables (without the enclosing %% signs) can be used within the filter.

The SET_SUM_FILTER= statement has the following general syntax:

```
SET_SUM_FILTER=('field name' comparator value) AND|OR  
( 'field name' comparator value)
```

Observe the following SET_SUM_FILTER syntax rules:

- This statement must begin in column one. Comment statements are indicated by an asterisk in column one.
- You can use as many *field name comparator value* criteria as necessary, connected through any combination of logical AND and OR operators. Parentheses are needed only to clarify the desired logic when multiple AND and OR operations are specified.
- Do not go beyond position 72 in a definition line. If the definition extends to a second line, split the text between words (not in the middle of a word). Leaving a blank in position one of the new line is recommended.
- When a field name contains a blank, it must be contained within single quotes. If the field name does not contain a blank, the quotes are not needed.
- For numeric fields, the comparator can be any of the common LE, LT, EQ, NE, GE, or GT comparison operators.
- For character fields, use the INCL or EXCL operators to indicate that the following list of test values are to be either included or excluded respectively. Parentheses can be used around a list of test values, and are recommended for clarity when more than one value is given. However the parentheses are not required. Items in a list can be separated by commas or blanks. For example:

```
'DATA SET NAME' INCL (PSS.A300./,SYS4/,DB2/)
```

- Test values for character fields can be either exact character strings, or pattern strings. For patterns, use the question mark (?) to represent any variable character, and the forward slash (/) to match any characters that follow. For example, TSO?5/ accepts any character after TSO and any suffix after the digit 5.

Note: For more information on wildcard characters, using quotes, and filtering, see the section Global Concepts, Functions, and Features in the *CA Vantage SRM User Guide*.

c. Customize the other FILTTLxx members to suit your installation.

Note: For information regarding syntax rules, see the topic "Filter Syntax Rules" in the *CA Vantage SRM Reference Guide* for more information.

7. (SYSPROG) Configure SAMS JCL Procedure for CATLMS as follows:

The system invokes CATLMS service programs, such as TLMSCMD, which require access to the CATLMS parameter library. Therefore, update the SAMS JCL procedure and add a //TLMLOPTS DD statement that points to your CATLMS CAI.CTAPOPTN data set. The DD name must be TLMLOPTS, for example:

```
//TLMLOPTS DD DISP=SHR,DSN=your.TLMS.ctapoptn.dataset
```

8. (SYSPROG) Grant Security Authority to Perform CA TLMS Actions as follows:

To allow CA Vantage SRM users the ability to perform actions on objects residing in the Volume Master File (VMF), you must give them authority within your security system to update the VMF data set.

Note: For more information, see the topic "Security Topics" in the *CA Vantage SRM Reference Guide*.

9. Stop and Restart CA Vantage SRM.

CA Vantage GMI is up and running.

10. Return to the section [Install and Configure CA GMI](#) (see page 64) and continue the rest of the setup. The instructions tell you how to start the Windows Client and create host definitions so that you can work with CATLMS objects as described in the chapter "CATLMS Objects".

Chapter 4: CATLMS Objects

This section contains the following topics:

[About CATLMS Objects](#) (see page 87)

[Using the Windows Client to Access CATLMS Objects](#) (see page 88)

[Zoom into an Object](#) (see page 92)

[Volumes Object Tab](#) (see page 93)

[Files Object](#) (see page 95)

[Files Object Actions Tab](#) (see page 97)

[Summary Folder](#) (see page 98)

[Summary by Expire Date Object](#) (see page 98)

[Summary by Used MB Range Object](#) (see page 99)

[Summary by DSN Group Object](#) (see page 100)

[Summary by Last Used Job Object](#) (see page 101)

[Summary by SMS MC Object](#) (see page 102)

[Summary by Box/Cabinet \(Slot\) Object](#) (see page 104)

[Summary by Retention Location Object](#) (see page 105)

[Summary by Location Object](#) (see page 106)

[Summary by User Defined/Updated Field Object](#) (see page 107)

About CATLMS Objects

CA Vantage GMI maintains several CATLMS objects. These objects can be used to manage, monitor, and report on CATLMS tape information stored in your z/OS system.

The following objects are available:

Volumes

Displays the most important items of information stored in the CATLMS Volume Master File (VMF) about tape volumes.

Files

Displays information about the files that reside on tape volumes.

Summary by Expire Date

Displays summary of tapes grouped by expiration date.

Summary by Used MB Range

Displays summary of tapes grouped by used MB range.

Summary by DSN Group

Displays summary of tapes grouped by data set name.

Summary by Last Used Job

Displays summary of tapes grouped by last used job.

Summary by SMS MC

Displays summary of tapes grouped by the SMS Management Class field.

Summary by Box/Cabinet (Slot)

Displays summary of tapes grouped by box/cabinet (slot) ID.

Summary by Retention Location

Displays summary of tapes grouped by retention location.

Summary by Location

Displays summary of tapes grouped by location.

Summary by User Defined/Updated Field

Displays summary of tapes grouped by user defined/updated field.

These objects are described in the following sections in the order they appear in the Object Tree.

Using the Windows Client to Access CATLMS Objects

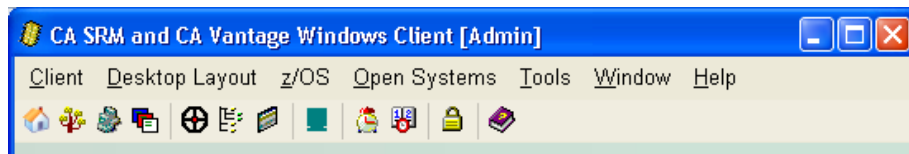
All CATLMS objects are included in the CATLMS folder of the Object Tree. This folder is a sub folder found under Tape Resource Management and then Tape Management Systems.


Note: Before you begin, make sure that the z/OS host that you want to connect to is up-and-running. For procedures on defining a z/OS Host, see the chapter "Setting Up CA Vantage GMI".

To access CATLMS objects

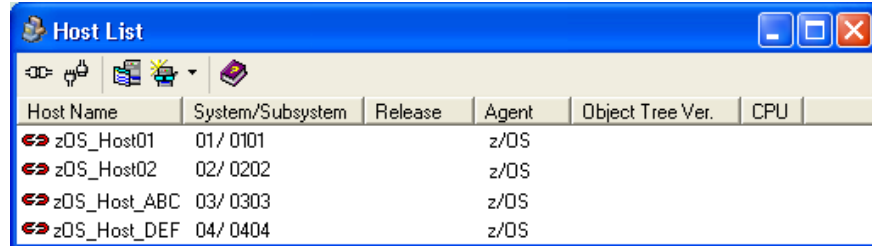
1. Click Start, Programs, CA, CA Storage Resource Manager, and select Windows Client.


The Windows Client appears. The following is a sample of the Windows Client main window Menu Bar and Toolbar:





- Click the Host List icon () in the Windows Client main windows Toolbar.

The Host List dialog opens. The following is a sample of the Host List dialog:





- Select the z/OS host that you want to connect to and click the Connect icon () .

If your user ID and password were provided in the Host Definition dialog for the selected host, the Windows Client attempts to connect to the host. If the connection is successful then the connection status icon changes from the Not Connected icon () to the Connected icon () and you can skip to Step 4.

If your user ID and password were not provided in the Host Definition dialog for the selected host, then the Host Login dialog appears and you must proceed to Step 4.

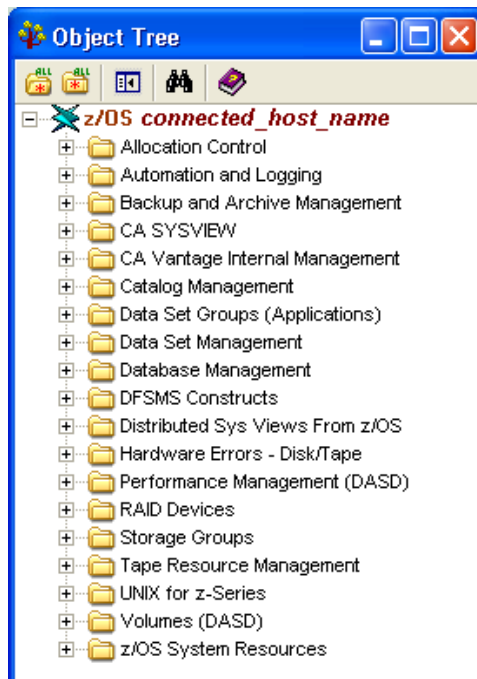
- Enter a valid user ID and password in the Host Login dialog, and click OK.

The Host Login dialog disappears.

The Windows Client will attempt to connect and log on to the z/OS host. If the connection is successful then the connection status icon in the Host List dialog changes from the Not Connected icon () to the Connected icon () . CA Vantage GMI will collect information from the z/OS host that you have chosen to connect to.

5. Click the Object Tree icon in the Windows Client main windows Toolbar.

The Object Tree dialog appears. The following is a sample of an Object Tree:



6. Click the plus sign next to the Tape Resource Management folder.

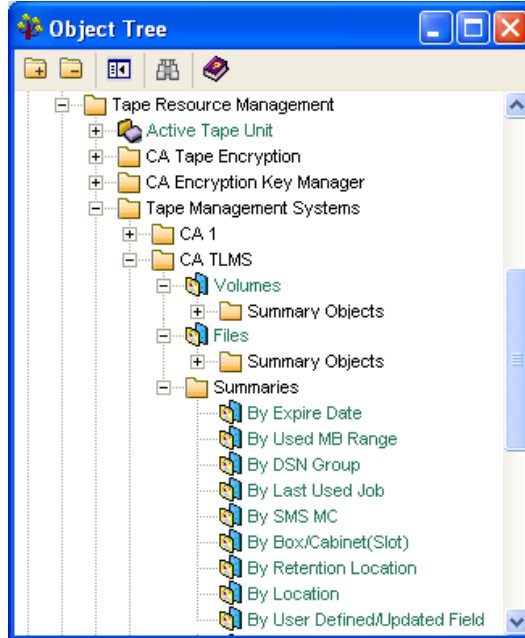
The Tape Resource Management folder is expanded and displays tape management subfolders.

7. Click the plus sign next to Tape Management Systems.

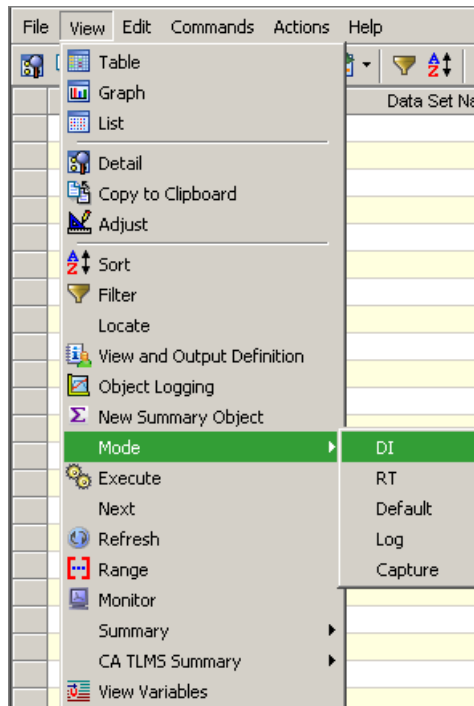
The Tape Management Systems folder is expanded and displays tape management system subfolders.

- Click the plus sign next to the CATLMS folder.

The CATLMS objects are displayed in the Object Tree, as shown in the following sample:



- Click volumes and select View, Mode, and DI.



10. Click the cogs to Execute to populate Volumes table View. See populated table below:

	Volume	Data Set Name	Vol Keep Date	Vol Seq Nbr	Vol Cnt	Act File Cnt	Tape Length
69	100967	SVTS.TGRP54.	03-Mar-2011	1	1	0	2,400
70	100968	SVTS.TGRP53.	03-Mar-2011	1	1	0	2,400
71	100969	SVTS.TGRP52.	03-Mar-2011	1	1	0	2,400
72	100970	SVTS.TGRP51.	03-Mar-2011	1	1	0	2,400
73	100971	SVTS.TGRP54.	03-Mar-2011	1	1	0	2,400
74	100972	SVTS.TGRP53.	03-Mar-2011	1	1	0	2,400
75	100973	SVTS.TGRP52.	03-Mar-2011	1	1	0	2,400
76	100974	SVTS.TGRP51.	03-Mar-2011	1	1	0	2,400

CA31 / QAC5 - (VISTLMSV) CA TLMS Volumes DI Records: 5000

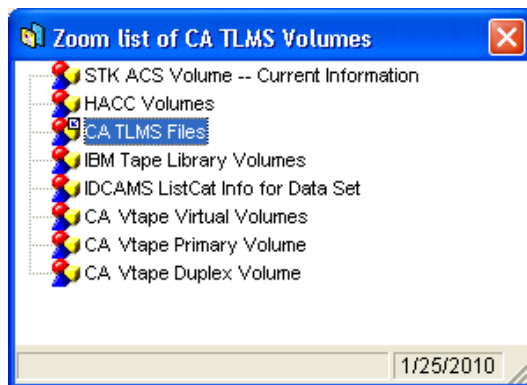
Zoom into an Object

You can work with multiple objects at the same time using zooms. A zoom is a view of another z/OS object related to the currently displayed object. The following shows how you can zoom from the CATLMS Volumes object to the CATLMS Files object window that displays the data set associated with a selected volume.

To zoom to another object

1. Double-click a row in the Volumes table view and a list of available zooms appears in the Zoom List dialog.

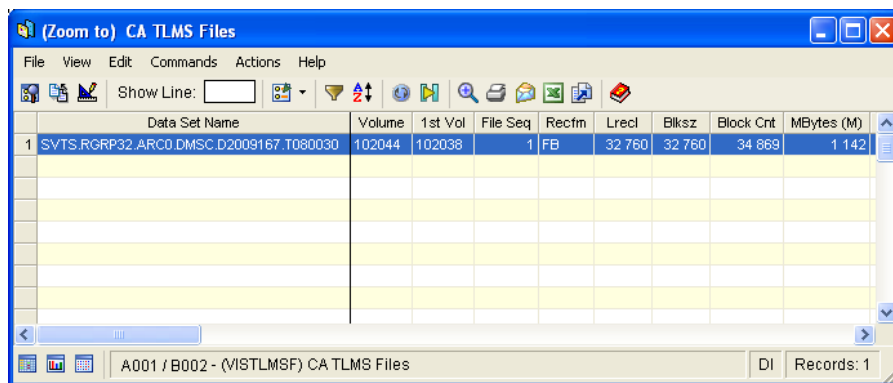
The following is an example of the Zoom List of CATLMS Volume dialog:



To zoom from a record. Click on the item to zoom to.

- From the Zoom list of CA TLMS Volumes, double-click CATLMS Files.

The Zoom to CATLMS Files object window opens, displaying the data set associated with the selected volume in the Volumes table. The following is an example of the Zoom to CATLMS Files object window:

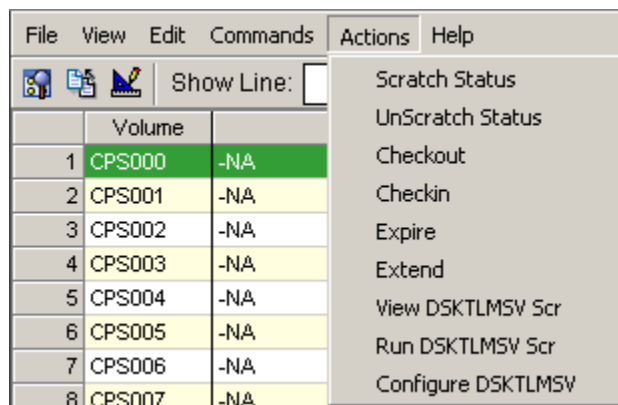


Volumes Object Tab

The information accessed through the Volumes object comes directly from the Volume Master File (VMF) record. Files with the “File Sequence in Chain” set to zero are excluded from the views produced for this object.

Note: For more information on these fields, see the Help About Object online help.

Select a row and click Actions to see the actions available.



The following actions can be available on the Actions menu for items in the Volumes object:

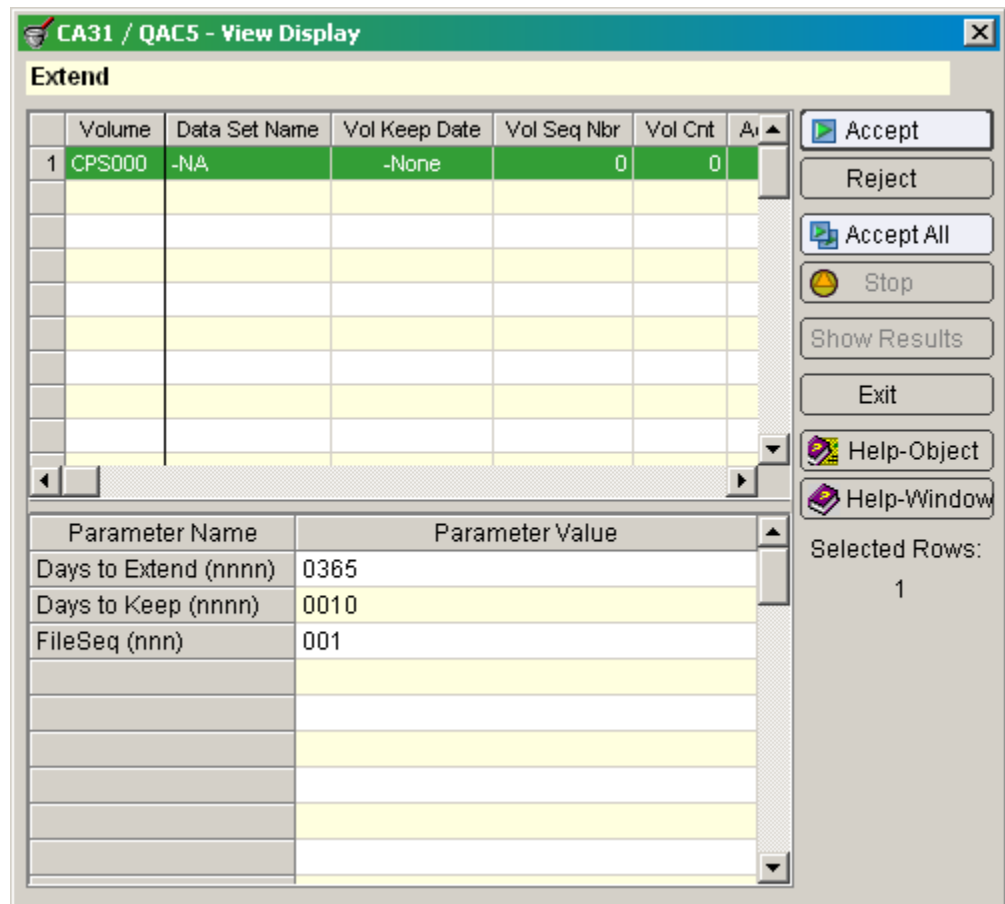
- Scratch Status—place a tape or group of tapes into scratch status
- UnScratch Status—remove scratch status from a tape or group of tapes

- Checkout—check out the selected tape to a vault
- Checkin—cccheck in a checked-out tape volume
- Expire— expire the selected volume
- Extend—extend the expiration date of a volume
- View DSKTLMSV Scr—open a new table that shows the DI-mode script for this object
- Run DSKTLMSV Scr—run the DI-mode script associated with this object
- Configure DSKTLMSV—configure scripts associated with this object

Note: This action is only available from the Windows Client.

Example: Extend Action

This example shows the dialog that displays when you select the Extend action:

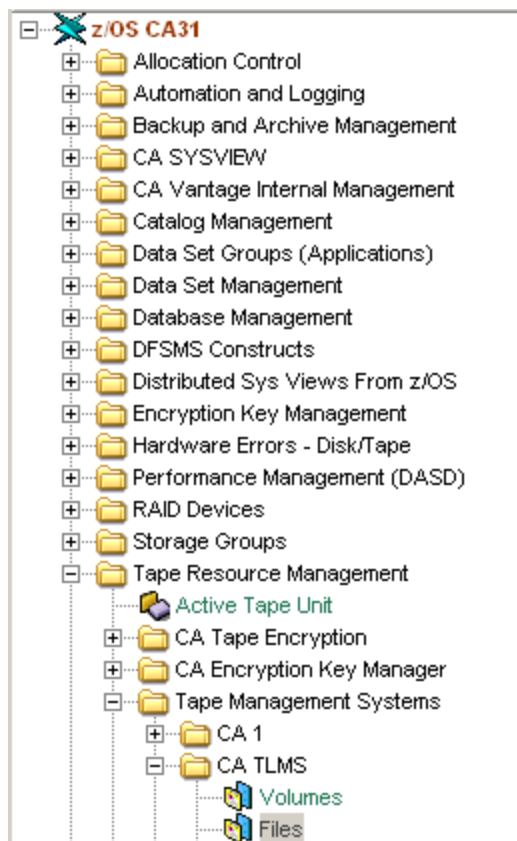


Files Object

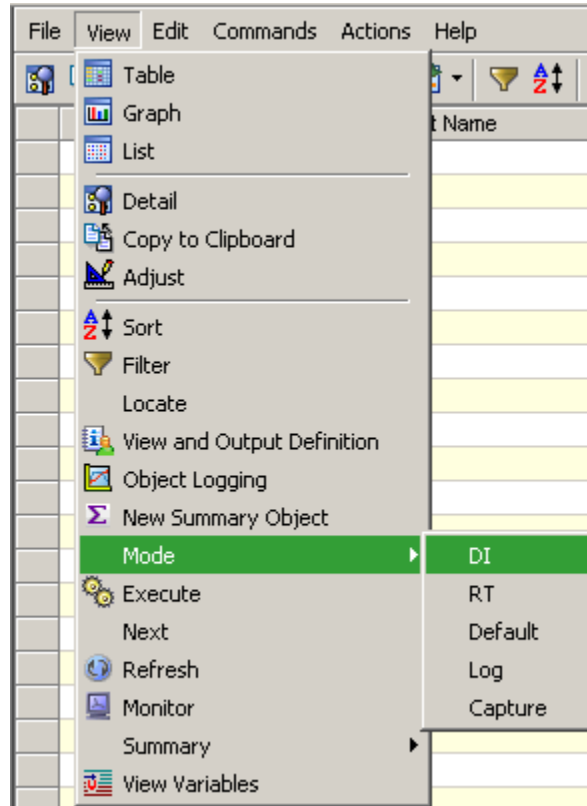
The information accessed through the Files object comes directly from the Volume Master File (VMF) record. Files with the “File Sequence in Chain” set to zero are excluded from the views produced for this object.

Note: For more information on these fields, see the Help About Object online help.

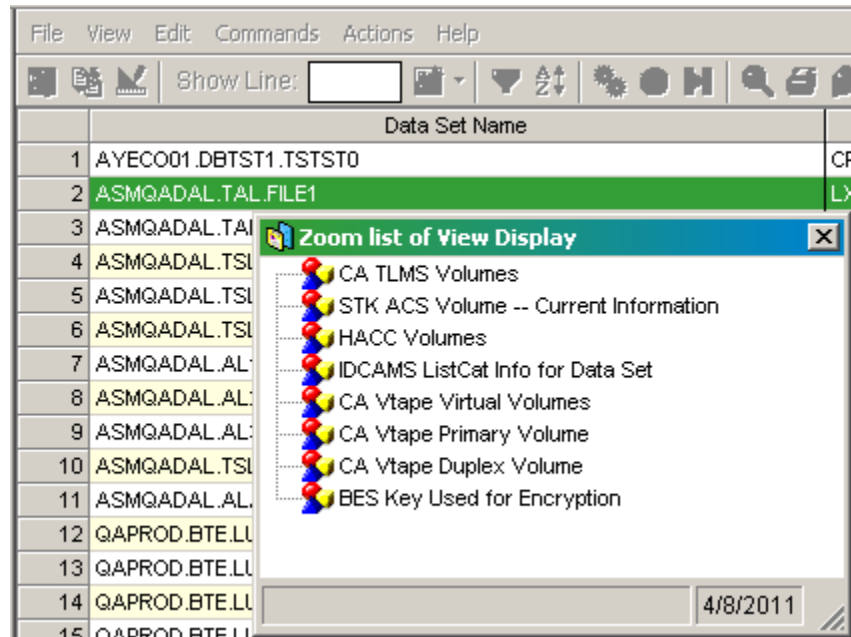
1. Select the Files object.



- Click View, Mode, DI, and execute.



- Select a file to zoom into.



The following zooms are available from the Files object:

- CA TLMS Volumes
- STK ACS Volume— Current Information
- HACC Volumes
- IDCAMS ListCat Info for Data Set
- CA Vtape Virtual Volumes
- CA Vtape Primary Volume
- CA Vtape Duplex Volume
- BES Key used for Encryption

The following actions are available on the Actions menu:

- View DSKTLMSV Scr—opens a new table that shows the DC-mode script for the Files object
- Run DSKTLMSV Scr—run the DC-mode script for the Files object
- Configure DSKTLMSV—configure scripts associated with this object

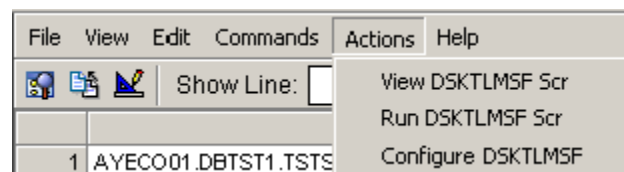
Note: This action is only available in the Windows Client.

The following zooms are available from the Files object:

- CATLMS Volumes
- STK ACS Volume -- Current Information
- HACC Volumes
- IDCAMS ListCat Info for Data Set
- CA Vtape Virtual Volumes
- CA Vtape Primary Volume
- CA Vtape Duplex Volume
- BES Key used for Encryption

Files Object Actions Tab

Select a row and click Actions to see the actions available.



The following actions are available on the Actions menu:

- View DSKTLMSF Scr—opens a new table that shows the DI-mode script for the Files object
- Run DSKTLMSF Scr—run the DI-mode script for the Files object
- Configure DSKTLMSF—configure scripts associated with this object

Note: This action is only available in the Windows Client.

Summary Folder

Click the plus sign next to Summaries Folder to display a list of summary objects.

Summary by Expire Date Object

The Summary by Expire Date Object shows a summary of tapes organized by expiration date. The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

For each expiration date, the object displays one summary record containing the following information:

- The expiration date
- The number of tapes for this expiration date
- The percent of the total that the record represents
- The total allocated MB for that record
- The average, minimum and maximum allocated space for the tapes in that record

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by Expire Date

In this example a table view of the summary is displayed by selecting the By Expire Date object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs:

	Expire Date	Nbr Of Tapes	Percentage	TotAlloc MBytes	AvgAlloc MBytes	MinAlloc MBytes	MaxAlloc MBytes
1	24-Jun-1989	1	0	6	6	6	6
2	08-Aug-1990	2	0	313	156	135	178
3	18-Dec-1990	1	0	0	0	0	0
4	04-Jul-1991	1	0	61	61	61	61
5	31-Jan-1993	1	0	0	0	0	0
6	25-Jul-1994	1	0	118	118	118	118
7	05-Sep-1994	16	0	662	41	0	114

CA31 / QAC5 - (TLMSXPRA) CA TLMS Grouping By Expiration Date RT Records: 6167

Summary by Used MB Range Object

The Summary by Used MB Range Object shows a summary of tape MB ranges for all active tapes (that is, tapes not in scratch status). The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

This summary is organized by filters defined in the CA Vantage SRM parmlib data set, member FILTLMB. Update member FILTLMB to use the groupings in effect at your site.

For each group or MB range (as defined in FILTLMB), this object creates one summary record that contains the following:

- The group name
- The number of tapes in the group
- The percent of the total the group represents
- The total allocated MB
- The average, minimum and maximum allocated space for the tape in that group

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by Used MB Range

In this example a table view of the summary is displayed by selecting the By Used MB Range object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs:

	Tapes MB	Nbr Of Tapes	Percentage	TotAlloc MBytes	AvgAlloc MBytes	MinAlloc	Max.Alloc MBytes
1	MB 0 - 1	21,230	4	3,020	0	0	1
2	MB 1 - 3	2,723	0	6,822	2	2	3
3	MB 3 - 5	1,393	0	6,228	4	4	5
4	MB 5 - 10	2,743	0	21,361	7	6	10
5	MB 10 - 20	3,102	0	45,268	14	11	20
6	MB 20 - 30	1,606	0	40,864	25	21	30
7	MB 30 - 40	1,296	0	45,504	35	31	40
8	MB 40 - 50	1,143	0	51,852	45	41	50

CA31 / QAC5 - (TLMSBYTA) CA TLMS Grouping By Tape Used MB Ranges RT Records: 29

Summary by DSN Group Object

The Summary by DSN Group object displays a summary of all active tapes (that is, tapes not in scratch status) grouped by data set name. The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

This summary is organized by filters defined in the CA Vantage SRM parmlib data set, member FILTLTD. Update member FILTLTD to use the groupings in effect at your site. The filter selects a tape for the group using the first data set name written on the tape. Secondary files are not used in the assignment of tapes to data groups, but the space they take up is added to the totals.

For each group or dataset name (as defined in FILTLTD), this object creates one summary record containing the following information:

- The group name
- The number of tapes in the group
- The percent of the total the group represents
- The total allocated MB
- The average, minimum and maximum allocated space for the tapes in the group
- The total number of files on the tapes (with average, minimum, and maximum values)

- The total number of opens for all the tapes in the group (with average, minimum, and maximum values)
- The total number of tape blocks on all of the tapes in the group (with average, minimum, and maximum values)

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by DSN Group

In this example a table view of the summary is displayed by selecting Select the By DSN Group object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs and clicking the cogs:

	Tape Dsn Groups	Nbr Of Tapes	Percentage	TotAlloc MBytes	AvgAlloc MBytes	MinAlloc	Max.Alloc MBytes
1	GRP PSS.A300./	15	0	1,090	72	0	421
2	GRP2 DMSOS./	0	0	0	0	0	0
3	G3 SYS4S.MVSS./	0	0	0	0	0	0
4	UNASSIGNED	478,990	99	2,268,817,096	4,736	0	137,594,283
5	ALL RECORDS	479,005	100	2,268,818,186	4,736	0	137,594,283

CA31 / QAC5 - (TLMSDSNA) CA TLMS Grouping By Tape Dataset Names RT Records: 5

Summary by Last Used Job Object

The Summary by Last Used Job object displays a summary of all active tapes (that is, tapes not in scratch status) grouped by last used job. The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

This summary is organized by filters defined in the CA Vantage SRM parmlib data set, member FILTTLJO. Update member FILTTLJO to use the groupings in effect at your site. The filter selects a tape for the group using the last jobname that used the tape.

For each group or last used jobname (as defined in FILTTLJO), this object creates one summary record containing the following information:

- The group name
- The number of tapes in the group
- The percent of the total the group represents
- The total allocated MB

- The average, minimum and maximum allocated space for the tapes in the group
- The total number of files on the tapes (with average, minimum, and maximum values)
- The total number of opens for all the tapes in the group (with average, minimum, and maximum values)
- The total number of tape blocks on all of the tapes in the group (with average, minimum, and maximum values)

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by Last Used Job

In this example a table view of the summary is displayed by selecting the By Last Used Job object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs:

	Tape JOB Groups	Nbr Of Tapes	Percentage	Tot.Alloc MBytes	Avg.Alloc MBytes	MinAlloc MBytes	Max.Alloc MBytes
1	JOBNM RIDXXXX	0	0	0	0	0	0
2	JOBNM RIDRXOS	0	0	0	0	0	0
3	JOBNM RIDRX/	0	0	0	0	0	0
4	JOBNM RIDOS/	0	0	0	0	0	0
5	JOBNM RID/	0	0	0	0	0	0
6	UNASSIGNED	479,005	100	2,268,818,186	4,736	0	137,594,283
7	ALL RECORDS	479,005	100	2,268,818,186	4,736	0	137,594,283

CA31 / QAC5 - (TLMSJOBA) CA TLMS Grouping By Last Used Job Names RT Records: 7

Summary by SMS MC Object

The Summary by SMS MC object displays a summary of all active tapes (that is, tapes not in scratch status) grouped by the SMS MC field in the CATLMS catalog. The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

This summary is organized by filters defined in the CA Vantage SRM parmlib data set, member FILTTLMC. Update member FILTTLMC to use the groupings in effect at your site. The filter selects a tape for the group using the SMS MC field.

For each group or last used jobname (as defined in FILTTLJO), this object creates one summary record containing the following information:

- The group name
- The number of tapes in the group
- The percent of the total the group represents
- The total allocated MB
- The average, minimum and maximum allocated space for the tapes in the group
- The total number of files on the tapes (with average, minimum, and maximum values)
- The total number of opens for all the tapes in the group (with average, minimum, and maximum values)
- The total number of tape blocks on all of the tapes in the group (with average, minimum, and maximum values).

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by SMS MC Object

In this example a table view of the summary is displayed by selecting the By SMS MC object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs:

	Tape SMS MC Grp	Nbr Of Tapes	Percentage	TotAlloc	AvgAlloc MBytes	MinAlloc MBytes	MaxAlloc MBytes
1	MC LARGE	0	0	0	0	0	0
2	MC SMALL	0	0	0	0	0	0
3	UNASSIGNED	479,005	100	2,268,818,186	4,736	0	137,594,283
4	ALL RECORDS	479,005	100	2,268,818,186	4,736	0	137,594,283

CA31 / QAC5 - (TLMSSMCA) CA TLMS Grouping By Tape SMS MC RT Records: 4

Summary by Box/Cabinet (Slot) Object

The Summary by Box/Cabinet (Slot) object displays a summary of all tapes grouped by Box/Slot/Cabinet ID. The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

For each Box/Slot ID, this object creates one summary record containing the following information:

- The group name
- The number of tapes in the Box/Slot
- The percent of the total the group represents
- The total allocated MB
- The average, minimum and maximum allocated space for the tapes in the group
- The total number of files on the tapes (with average, minimum, and maximum values)
- The total number of opens for all the tapes in the Box/Slot (with average, minimum, and maximum values)
- The total number of tape blocks on all of the tapes in the Box/Slot (with average, minimum, and maximum values)

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by Box/Cabinet (Slot)

In this example a table view of the summary is displayed by selecting the By Box/Cabinet (Slot) object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs:

	Tape BOX Grps	Nbr Of Tapes	Percentage	TotAlloc MBytes	AvgAlloc MBytes	MinAlloc MBytes	MaxAlloc MBytes
1	-NA	358,751	74	2,216,956,455	6,179	0	137,594,283
2	VTX	120,254	25	51,861,731	431	0	3,594

CA31 / QAC5 - (TLMSBOXA) CA TLMS Grouping By Box/Cabinet(Slot) RT Records: 2

Summary by Retention Location Object

The Summary by Retention Location object displays a summary of all tapes grouped by retention location. The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

For each retention location, this object creates one summary record containing the following information:

- The group name
- The number of tapes in the location
- The percent of the total the group represents
- The total allocated MB
- The average, minimum and maximum allocated space for the tapes in the group
- The total number of files on the tapes (with average, minimum, and maximum values)
- The total number of opens for all the tapes in the location (with average, minimum, and maximum values)
- The total number of tape blocks on all of the tapes in the location (with average, minimum, and maximum values).

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by Retention Location

In this example a table view of the summary is displayed by selecting the By Retention Location object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs:

	Retention Loc	Nbr Of Tapes	Percentage	TotAlloc MBytes	AvgAlloc MBytes	MinAlloc MBytes	MaxAlloc MBytes
2	DC	78,995	16	1,915,902,778	24,253	0	137,594,283
3	BF	1,308	0	758,477	579	0	5,476
4	D6	1	0	0	0	0	0
5	BY	1,459	0	3,972,434	2,722	0	16,065
6	BM	5,213	1	16,126,382	3,093	0	16,083

CA31 / QAC5 - (TLMSLOCA) CA TLMS Grouping By Retention Location RT Records: 10

Summary by Location Object

The Summary by Location object displays a summary of all tapes grouped by location. The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

For each location, this object creates one summary record containing the following information:

- The group name
- The number of tapes in the location
- The percent of the total the group represents
- The total allocated MB
- The average, minimum and maximum allocated space for the tapes in the group
- The total number of files on the tapes (with average, minimum, and maximum values)
- The total number of opens for all the tapes in the location (with average, minimum, and maximum values)
- The total number of tape blocks on all of the tapes in the location (with average, minimum, and maximum values).

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by Location

In this example a table view of the summary is displayed by selecting the By Location object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs:

	Location	Nbr Of Tapes	Percentage	TotAlloc MBytes	AvgAlloc MBytes	MinAlloc MBytes	MaxAlloc MBytes
3	BF	1,308	0	758,477	579	0	5,476
4	BY	1,451	0	3,961,820	2,730	0	16,065
5	BM	5,207	1	16,116,321	3,095	0	16,083
6	LB	2	0	3,138	1,569	1,569	1,569
7	BW	30	0	84,447	2,814	1	10,498
8	CF	5,047	1	3,500,500	693	0	3,000

CA31 / QAC5 - (TLMSLOC) CA TLMS Grouping By Location RT Records: 9

Summary by User Defined/Updated Field Object

The Summary by User Defined/Updated Field object displays a summary of all tapes grouped by the value in the user defined field. The CATLMS catalog controls all of the tapes in the summary. The CATLMS Tape Volume records provide input to this summary.

For each user defined field, this object creates one summary record containing the following information:

- The group name
- The number of tapes in the location
- The percent of the total the group represents
- The total allocated MB
- The average, minimum and maximum allocated space for the tapes in the group
- The total number of files on the tapes (with average, minimum, and maximum values)
- The total number of opens for all the tapes in the group (with average, minimum, and maximum values)
- The total number of tape blocks on all of the tapes in the group (with average, minimum, and maximum values).

Note: For more information on these fields, see the Help About Object online help.

Example: Summary by User Defined/Updated Field

In this example a table view of the summary is displayed by selecting the By User Defined/Updated Field object in the Summaries folder under the CATLMS folder in the Object Tree and clicking the cogs:

	User Defined	Nbr Of Tapes	Percentage	TotAlloc MBytes	AvgAlloc MBytes	MinAlloc MBytes	MaxAlloc
1	001100000	111	0	144,393	1,300	0	
2	001100000	1	0	1,903	1,903	1,903	
3	001200000	16	0	31,768	1,985	97	
4	01026	1	0	87	87	87	
5	01026	20	0	6,700	335	335	

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