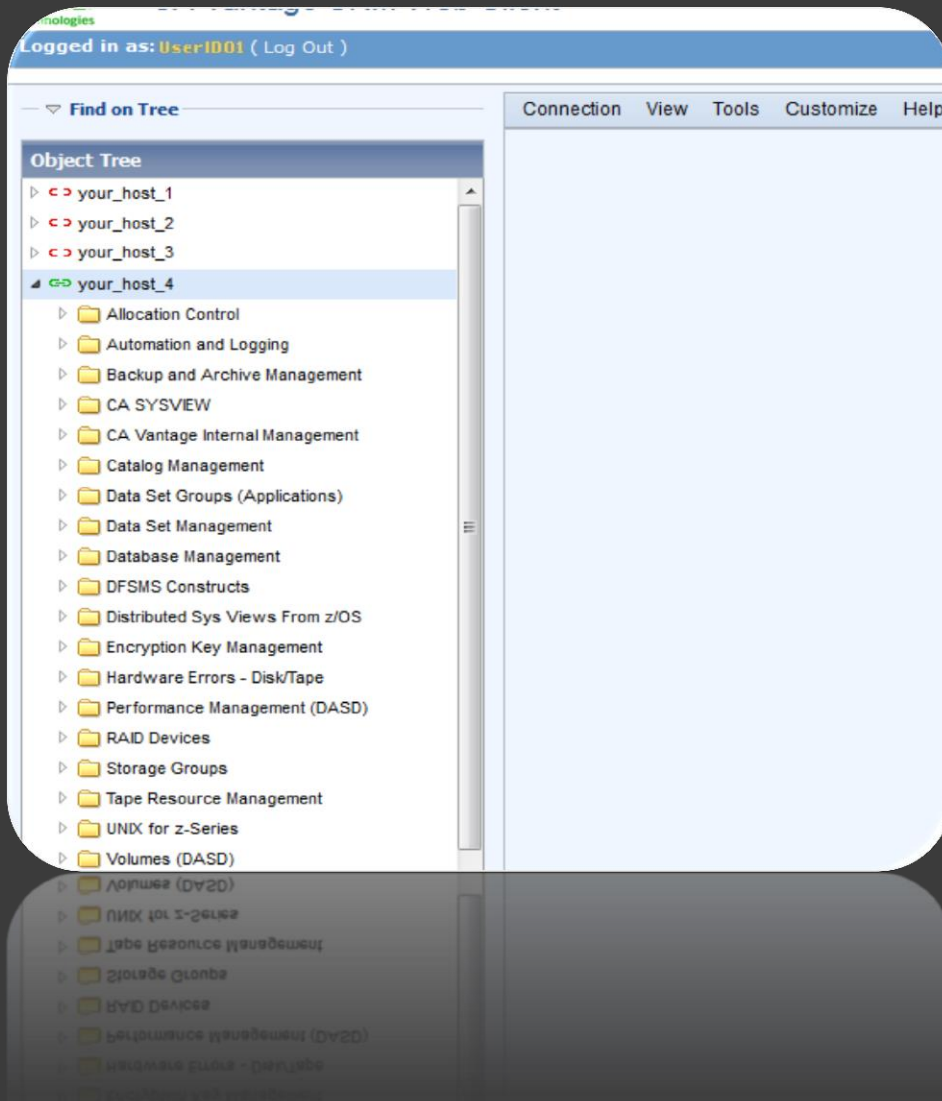


Unix File System Display

**CA-VANTAGE**



## CA Vantage – UNIX GUI

CA Vantage / Unix GUI provides a number of options that can help ensure critical UNIX storage subsystem availability by identifying hot spots before the system is impacted.

The same ease of use script generation that you know from the z/OS side is the same for z/OS UNIX file system.

These include an allocation option for mounting and un-mounting of UNIX file systems.

# Overview

- This function displays the z/OS UNIX File System, starting at the root file system. File systems must be mounted before they can be displayed.
- Each directory is displayed in its entirety; i.e, for each entry in a directory, the entry name and its associated attributes are displayed.

# Field Descriptions

## ● File Name

This is the name of a file in the directory. Only the first 40 characters of a name are displayed. If the name exceeds 40 characters, it is reduced to 40 characters or less by taking out nodes in the middle of the name and replacing them with 5 dots. The full name may be displayed by zooming on the entry and selecting the full name display.

## ● File Type

This is the type of file backed up. Types can be:

- Dir - Directory
- Fil - Regular File
- Chr - Special Character File
- Sym - Symbolic Link
- Fif - Named Pipe File
- Soc - Socket File

# Field Descriptions

- **File Owner**

The RACF user ID of the owner of the file.

- **User ID**

The numeric UID of the owner of the file.

- **Group Owner**

The RACF group ID owner of the file.

- **Group ID**

The numeric GID owner of the file.

- **Mod Time**

The time the file was last modified.

- **Mod Date**

The date the file was last modified.

- **Perms**

These are the read/write/execute (rwe/s) permissions of the file.

This field has 3 groups of 3 permissions.

- The first group governs the RACF user owner of the path

- The second group governs RACF group owner of the path.

- The third group governs external use of the path.

The "rwes" -- "s" appears for directories only - "s" stands for "Search". When "s" appears, it means that the directory is allowed to be searched. That is, one is allowed search a particular directory on its way to another directory or file.

# Field Descriptions

- Access Time

The time the file was last accessed.

- Access Date

The date the file was last accessed.

- Create Time

The time the file was created.

- Create Date

The date the file was created.

- Link Count

The number of directory entries that refer to a particular file.

- Dev Nbr

Device ID of the file

- Inode Nbr

The internal structure that describes the individual files in the operating system; there is one inode for each file.

An inode contains the node, type, owner, access times, number of links, and location of a file. A table of inodes is stored near the beginning of a file system.

- Path Length

Path Length

- Long File Name

Path File Name

# Directory Listing

CA SRM and CA Vantage Windows Client [Admin]

Client z/OS Open Systems Tools Window Help

Object Tree \ z/OS tso99\UNIX for z-Series\Directories

z/OS tso99

- Allocation Control
- Automation and Logging
- Backup and Archive Management
- CA SYSVIEW
- CA Vantage Internal Management
- Catalog Management
- Data Set Groups (Applications)
- Data Set Management
- Database Management
- DFSMS Constructs
- Distributed Sys Views From z/OS
- Encryption Key Management
- Hardware Errors - Disk/Tape
- Performance Management (DASD)
- RAID Devices
- Storage Groups
- Tape Resource Management
- UNIX for z-Series
  - Directories
  - Mounted zSeries File Systems
- Volumes (DASD)
- z/OS System Resources

File View Edit Operate Actions Options Help

Show Line: [ ]

	File Name	File Type	File Size	Perms	File Owner
1	/.	Dir	8,192	rwsr sr s	VANTR126
2	/..	Dir	8,192	rwsr sr s	VANTR126
3	/etc	Dir	8,192	rws	VANTR126
4	/usr	Dir	8,192	rwsr sr s	VANTR126
5	/var	Dir	8,192	rwsr sr s	VANTR126
6	/zWebSphereOEM	Dir	8,192	rwsr sr s	VANTR126
7	/a	Dir	8,192	rwsr sr s	VANTR126
8	/...	Dir	8,192	r sr sr s	VANTR126
9	/bin	Dir	16,384	rwsr sr s	VANTR126
10	/dev	Sym	12	rwerwerwe	VANTR126
11	/lib	Dir	8,192	rwsr sr s	VANTR126
12	/opt	Dir	8,192	rwsr sr s	VANTR126
13	/samples	Dir	8,192	rwsr sr s	VANTR126
14	/tmp	Sym	12	rwerwerwe	VANTR126
15	/u	Dir	8,192	rwsr sr s	VANTR126
16	/SYSTEM	Dir	8,192	rwsr sr s	VANTR126
17	/sys	Dir	8,192	rwsr sr s	VANTR126
18	/cai	Dir	8,192	rwsr sr s	VANTR126
19	/agent	Dir	8,192	rwsr sr s	VANTR126

XE99 / SAM1 - (UNXDIREC) Unix File System Display

RT Records: 27

# Ability to zoom into a folder

The screenshot displays the CA SRM and CA Vantage Windows Client interface. The main window shows a tree view of the system structure under 'z/OS tso99'. A red arrow points from the '/usr' folder in the tree to a secondary window titled '(Zoom to) Unix File System Display'. This secondary window provides a detailed view of the files and directories within the '/usr' folder, including file names, types, sizes, permissions, and owners.

**Object Tree \ z/OS tso99\UNIX for z-Series\Directories**

- z/OS tso99
  - Allocation Control
  - Automation and Logging
  - Backup and Archive Management
  - CA SYSVIEW
  - CA Vantage Internal Management
  - Catalog Management
  - Data Set Groups (Applications)
  - Data Set Management
  - Database Management
  - DFSMS Constructs
  - Distributed Sys Views From z/OS
  - Encryption Key Management
  - Hardware Errors - Disk/Tape
  - Performance Management (DASD)
  - RAID Devices
  - Storage Groups
  - Tape Resource Management
  - UNIX for z-Series
    - Directories
    - Mounted zSeries File Systems
  - Volumes (DASD)
  - z/OS System Resources

**(Zoom to) Unix File System Display**

File Name	File Type	File Size	Perms	File Owner
1 /.	Dir	8,192	rwsr sr s	VANTR126
2 /..	Dir	8,192	rwsr sr s	VANTR126
3 /etc				
4 /usr				
5 /var				
6 /zWebSphereOEM				
7 /a				
8 /...				
9 /bin				
10 /dev				
11 /lib				
12 /opt				
13 /samples				
14 /tmp				
15 /u				
16 /SYSTEM				
17 /sys				
18 /cai				
19 /agent				

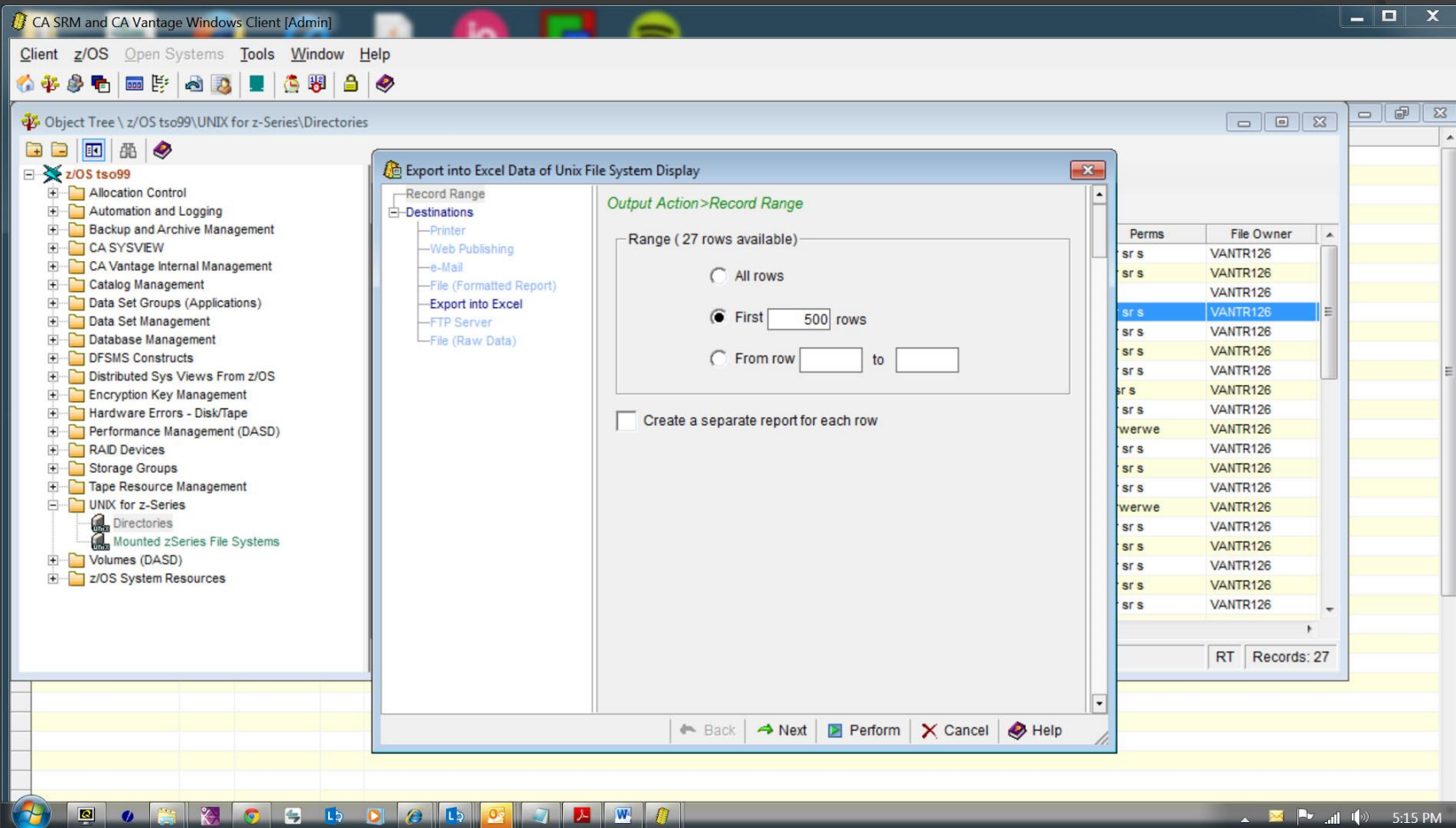
**XE99 / SAM1**

**XE99 / SAM1 - (UNXDIREC) Unix File System Display**

File Name	File Type	File Size	Perms
1 /usr/.	Dir	8,192	rwsr sr s
2 /usr/..	Dir	8,192	rwsr sr s
3 /usr/lpp	Dir	8,192	rwsr sr s
4 /usr/bin	Dir	8,192	rwsr sr s
5 /usr/include	Dir	16,384	rwsr sr s
6 /usr/lib	Dir	8,192	rwsr sr s
7 /usr/local	Dir	8,192	rwsr sr s
8 /usr/mail	Sym		11 rwerwerwe
9 /usr/man	Dir	8,192	rwsr sr s
10 /usr/sbin	Dir	8,192	rwsr sr s
11 /usr/share	Dir	8,192	rwsr sr s
12 /usr/spool	Sym		12 rwerwerwe

**RT** **Records: 12**





# Excel output

UNXDIREC Excel														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	File Name	File Type	File Size	Perms	File Owner	User ID	Group Owner	Group ID	Mod Time	Mod Date	Chg Time	Chg Date	Access Time	Access Date
2	/.	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	1:41:08	18-Apr-2015
3	/..	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	1:41:08	18-Apr-2015
4	/etc	Dir	8,192	rws	VANTR126	0	CHORGRP		1 15:29:54	06-Oct-2014	15:29:54	06-Oct-2014	17:00:06	05-Jun-2015
5	/usr	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 5:56:15	25-May-2013	17:53:48	05-Nov-2013	1:41:08	18-Apr-2015
6	/var	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 18:36:02	11-Oct-2013	17:53:48	05-Nov-2013	22:02:07	05-Nov-2013
7	/zWebSphereOEM	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 15:17:13	11-Oct-2013	17:53:39	05-Nov-2013	1:41:08	18-Apr-2015
8	/a	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:16:54	07-Nov-2013	19:16:54	07-Nov-2013	19:16:54	07-Nov-2013
9	/...	Dir	8,192	r sr sr s	VANTR126	0	CHORGRP		1 5:56:15	25-May-2013	17:53:48	05-Nov-2013	5:56:15	25-May-2013
10	/bin	Dir	16,384	rwsr sr s	VANTR126	0	CHORGRP		1 1:36:23	18-Apr-2015	1:36:23	18-Apr-2015	17:58:13	11-Oct-2013
11	/dev	Sym	12	rwerwerwe	VANTR126	0	CHORGRP		1 17:48:34	05-Nov-2013	17:48:34	05-Nov-2013	17:48:34	05-Nov-2013
12	/lib	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 17:58:13	11-Oct-2013	17:53:48	05-Nov-2013	17:58:13	11-Oct-2013
13	/opt	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 5:56:18	25-May-2013	17:53:48	05-Nov-2013	5:56:18	25-May-2013
14	/samples	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 1:45:21	31-Jan-2015	1:45:21	31-Jan-2015	16:11:13	11-Oct-2013
15	/tmp	Sym	12	rwerwerwe	VANTR126	0	CHORGRP		1 17:48:34	05-Nov-2013	17:48:34	05-Nov-2013	17:48:34	05-Nov-2013
16	/u	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	5:56:15	25-May-2013
17	/SYSTEM	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 5:56:15	25-May-2013	17:53:39	05-Nov-2013	5:56:15	25-May-2013
18	/sys	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 16:27:42	22-Sep-2014	16:27:42	22-Sep-2014	16:28:14	22-Sep-2014
19	/cai	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:16:55	07-Nov-2013	19:16:55	07-Nov-2013	19:16:55	07-Nov-2013
20	/agent	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013
21	/BonusPak2	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013
22	/BP2Archive	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013
23	/CEEV2R5	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013
24	/hjva11a	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013
25	/ig2011mvs	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013

# Mounted UNIX file system

CA SRM and CA Vantage Windows Client [Admin]

Client z/OS Open Systems Tools Window Help

Object Tree \ z/OS tso99\UNIX for z-Series\Mounted zSeries File Systems

z/OS tso99

- Allocation Control
- Automation and Logging
- Backup and Archive Management
- CASYSVIEW
- CA Vantage Internal Management
- Catalog Management
- Data Set Groups (Applications)
- Data Set Management
- Database Management
- DFSMS Constructs
- Distributed Sys Views From z/OS
- Encryption Key Management
- Hardware Errors - Disk/Tape
- Performance Management (DASD)
- RAID Devices
- Storage Groups
- Tape Resource Management
- UNIX for z-Series
  - Directories
    - Mounted zSeries File Systems
  - Volumes (DASD)
- z/OS System Resources

File View Edit Operate Actions Options Help

Show Line: [ ]

	zFSName	Volume	MntPoint	Status	ReadOnly	DevNum
1	OMVS.XE99.CACSM.D3	TSO99N	/SYSTEM/dev/	Active	N	
2	OMVS.XE99.CACSM.D2	TSO990	/SYSTEM/dev/	Active	N	
3	OMVS.XE99.CACSM.CASC1	TSO990	/SYSTEM/dev/	Active	N	
4	OMVS.XE99.CACSM.CASC7	TSO990	/SYSTEM/dev/	Active	N	
5	OMVS.XE99.CACSM.CASC10	TSO990	/SYSTEM/dev/	Active	N	
6	OMVS.XE99.CACSM.CASC9	TSO990	/SYSTEM/dev/	Active	N	
7	OMVS.XE99.CACSM.CASC37	TSO990	/SYSTEM/dev/	Active	N	
8	OMVS.XE99.CACSM.CASC13	TSO99N	/SYSTEM/dev/	Active	N	
9	OMVS.XE99.CACSM.CASC32	TSO990	/SYSTEM/dev/	Active	N	
10	OMVS.XE99.CACSM.CASC12	TSO990	/SYSTEM/dev/	Active	N	
11	OMVS.XE99.CACSM.CASC27	TSO990	/SYSTEM/dev/	Active	N	
12	OMVS.XE99.CACSM.CASC24	TSO990	/SYSTEM/dev/	Active	N	
13	OMVS.XE99.CACSM.CASC14	TSO99N	/SYSTEM/dev/	Active	N	
14	OMVS.XE99.CACSM.CASC34	TSO990	/SYSTEM/dev/	Active	N	
15	OMVS.XE99.CACSM.CASC33	TSO99N	/SYSTEM/dev/	Active	N	
16	OMVS.XE99.CACSM.CASC11	TSO990	/SYSTEM/dev/	Active	N	
17	OMVS.XE99.CACSM.CASC18	TSO990	/SYSTEM/dev/	Active	N	
18	OMVS.XE99.CACSM.CASC38	TSO99N	/SYSTEM/dev/	Active	N	
19	OMVS.XE99.CACSM.CASC8	TSO990	/SYSTEM/dev/	Active	N	

XE99 / SAM1 - (OBJ11100) Mounted zSeries File Systems

LI Records: 69



# Available actions

CA SKM and CA Vantage Windows Client [Admin]

Client z/OS Open Systems Tools Window Help

Object Tree \ z/OS tso99\UNIX for z-Series\Mounted zSeries File Systems

z/OS tso99

- Allocation Control
- Automation and Logging
- Backup and Archive Management
- CA SYSVIEW
- CA Vantage Internal Management
- Catalog Management
- Data Set Groups (Applications)
- Data Set Management
- Database Management
- DFSMS Constructs
- Distributed Sys Views From z/OS
- Encryption Key Management
- Hardware Errors - Disk/Tape
- Performance Management (DASD)
- RAID Devices
- Storage Groups
- T...

File View Edit Operate Actions Options Help

Show Line: [ ]

Send Chorus Alert

View ZFSDSNS Scr

Run ZFSDSNS Scr

Configure ZFSDSNS

Create and Mount

Unmount zFS

Remount zFS

Reset Unmount

Grow Aggregate

Change Mnt Attr

		Volume	MntPoint	St
1	OMVS.XE99.CACSM.D3	TSO99N	/SYSTEM/dev/	Active
2	OMVS.XE99.CACSM.D2	TSO990	/SYSTEM/dev/	Active
3	OMVS.XE99.CACSM.CASC1	TSO990	/SYSTEM/dev/	Active
4	OMVS.XE99.CACSM.CASC7	TSO990	/SYSTEM/dev/	Active
5	OMVS.XE99.CACSM.CASC1	TSO990	/SYSTEM/dev/	Active
6	OMVS.XE99.CACSM.CASC9	TSO990	/SYSTEM/dev/	Active
7	OMVS.XE99.CACSM.CASC3	TSO990	/SYSTEM/dev/	Active
8	OMVS.XE99.CACSM.CASC1	TSO99N	/SYSTEM/dev/	Active
9	OMVS.XE99.CACSM.CASC3	TSO990	/SYSTEM/dev/	Active
10	OMVS.XE99.CACSM.CASC0	TSO990	/SYSTEM/dev/	Active
11	OMVS.XE99.CACSM.CASC2	TSO990	/SYSTEM/dev/	Active
12	OMVS.XE99.CACSM.CASC24	TSO990	/SYSTEM/dev/	Active
13	OMVS.XE99.CACSM.CASC1	TSO990	/SYSTEM/dev/	Active

The screenshot displays the CA SRM and Vantage Windows Client interface. The main window shows a tree view of zSeries File Systems. A 'Create and Mount' dialog box is open, allowing configuration of a new file system. The dialog includes fields for Data Set Name, Primary Allocation in Cylinders, Secondary Allocation in Cylinders, SMS SC Name (opt.), and SMS MC Name (opt.). It also has a table for Status and Results. The background window shows a list of file systems with columns for ESName, Volume, MountPoint, Status, ReadOnly, and DevNum.

ESName	Volume	MountPoint	Status	ReadOnly	DevNum
1 OMVS.XE99 / SAM1 - V... Display				N	
2 OMVS.XE99 / SAM1 - V... Display				N	
3 OMVS.XE99 / SAM1 - V... Display				N	
4 OMVS.XE99 / SAM1 - V... Display				N	
5 OMVS.XE99 / SAM1 - V... Display				N	
6 OMVS.XE99 / SAM1 - V... Display				N	
7 OMVS.XE99 / SAM1 - V... Display				N	
8 OMVS.XE99 / SAM1 - V... Display				N	
9 OMVS.XE99 / SAM1 - V... Display				N	
10 OMVS.XE99 / SAM1 - V... Display				N	
11 OMVS.XE99 / SAM1 - V... Display				N	
12 OMVS.XE99 / SAM1 - V... Display				N	
13 OMVS.XE99 / SAM1 - V... Display				N	
14 OMVS.XE99 / SAM1 - V... Display				N	
15 OMVS.XE99 / SAM1 - V... Display				N	
16 OMVS.XE99 / SAM1 - V... Display				N	
17 OMVS.XE99 / SAM1 - V... Display				N	
18 OMVS.XE99 / SAM1 - V... Display				N	
19 OMVS.XE99 / SAM1 - V... Display				N	

# Unmount in 2 clicks

