



# Quick Setup Guide

**RAID Array 8000/ESA12000 UltraSCSI  
Storage Subsystem for OpenVMS**

## ***Before You Begin***

In this Quick Setup Guide we tell you how to create an initial hardware configuration for both the Compaq StorageWorks RAID Array 8000 UltraSCSI Storage Subsystem and the Compaq StorageWorks Enterprise Storage Array12000 UltraSCSI Storage Subsystem (the “RA8000/ESA12000 storage subsystem” or the “storage subsystem”).

To create this configuration you will:

- Install Storage Building Blocks (SBBs) and Program Cards in the RA8000/ESA12000 storage subsystem cabinet;
- Connect the UltraSCSI adapter to the storage subsystem HSZ80 controller;
- Connect a PC to the HSZ80 controller to act as a maintenance terminal;
- Turn on the ac power to the storage subsystem;
- Install the StorageWorks Command Console (SWCC) Client Graphical User Interface on the PC;
- And configure a Storageset.

Before you start these steps follow the instructions on the shipping container to unpack the RA8000/ESA12000 storage subsystem. Then move the storage subsystem to the operating location you have selected. Refer to the *RA8000/ESA12000 Storage subsystem User's Guide*, EK–SMCPR–UG. A01 (387404–001) for information about selecting a location.

The instructions for installing and connecting storage subsystem components are given for the SW370 pedestal, but apply equally to other Compaq cabinet options. Depending on the storage subsystem you have ordered, you might have to install the storage subsystem in a cabinet and connect the cache module to a cache battery. Refer to the *User's Guide* for more information.

### **NOTE**

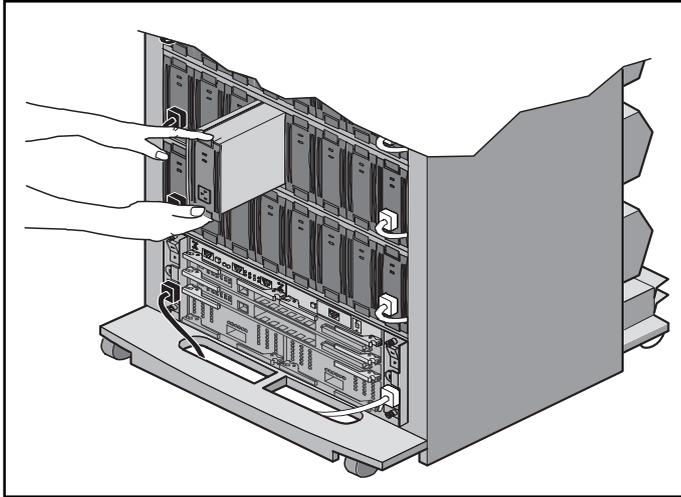
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You can find complete instructions for unpacking and installing the storage subsystem in the *User's Guide* and in the *RA8000/ESA12000 HSZ80 Solution Software V8.3 for OpenVMS Installation Reference Manual*, AA–RFAFA–TE (387401-001).

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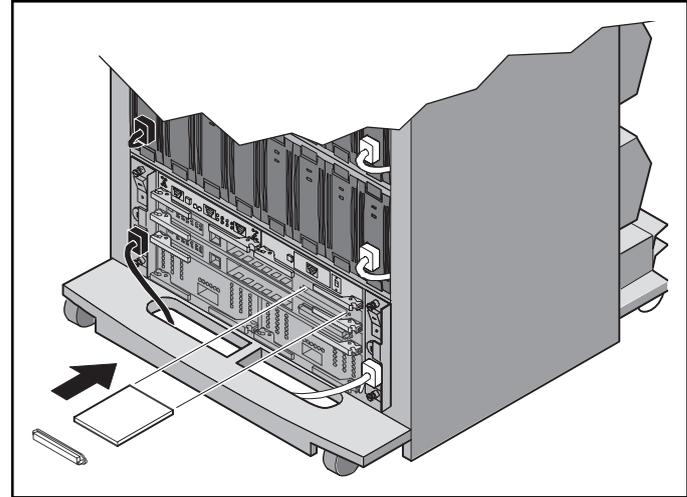
# 1

## Install the SBBs and a Program Card



### Install the SBBs in the RA8000/ESA12000 Storage Subsystem Cabinet

- Insert an SBB into the shelf guide slots and slide the SBB into the shelf until the mounting tabs snap into place.
- For optimum SCSI bus distribution, install the SBBs from left-to-right and from bottom-to-top.



### Install the PCMCIA Card in the HSZ80 Controller

- Remove the ESD cover from the controller PCMCIA slot.
- Insert the PCMCIA card in the controller slot.
- Replace the ESD cover over the controller slot.
- Repeat the procedure for a second controller.

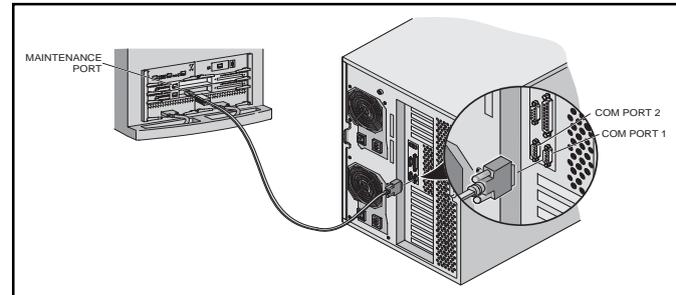
# 2

## Connect the OpenVMS Host to the Storage Subsystem Controller

### Connect the Host UltraSCSI Adapter to the HSZ80 Controller

- Connect one end of the SCSI cable to the SCSI I/O host port 1 on the HSZ80 controller.
- Connect the other end of the cable to the UltraSCSI adapter in the OpenVMS host.

### Connect the PC Communication Port to the HSZ80 Controller



- Connect the RJ12 connector on the communications cable to the maintenance port on the HSZ80 controller.
- Connect the 9-pin serial connector on the communications cable to either the COM1 or COM2 port on the PC.

### NOTE

Make a note of the serial port you use; you need to know it when you set up your communication program and configure the controller.

# 3

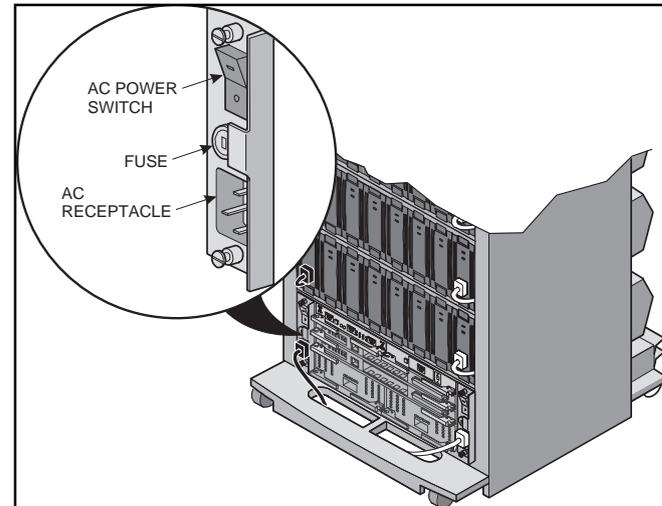
## Turn on the Subsystem Power

### Connect the Hub to an AC Power Outlet

- Connect one end of the hub ac power cord to the hub.
- Connect the other end of the ac power cord to an ac outlet.

### Turn on the Storage Subsystem Power

- Connect one end of the storage subsystem cabinet ac power cord to the cabinet ac receptacle.
- Connect the other end of the power cord to an ac outlet.
- Push in the “1” side of the cabinet ac power switch.
- When the RESET LED on the HSZ80 controller blinks at a rate of once per second the storage subsystem is ready to operate.



# 4

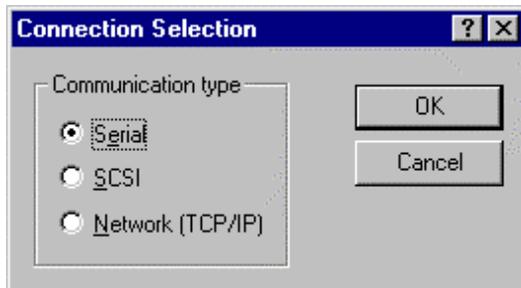
## Install StorageWorksCommand Console (SWCC) Client on the PC

### Install the SWCC Client

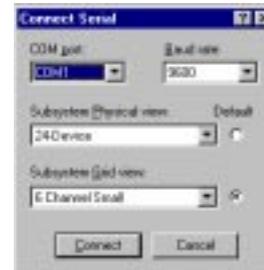
- Insert the storage subsystem CD-ROM in the CD-ROM drive.
- Run *File Manager* or *Windows Explorer*.
- Navigate to the folder *drive\_letter:\SWCC\Client*.
- Choose *Intel client*; then double-click on *Setup*.
- When the setup wizard appears, follow the instructions to complete the installation.

### HSZ80 Controller Setup

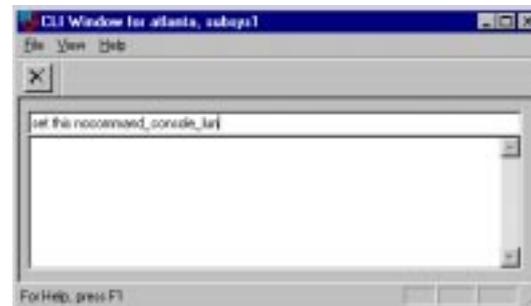
- Click on the Windows taskbar *Start* button.
- Move the pointer to *Programs* → *Command Console* → *CLI Window*; click on *CLI Window* to display the *Connection Selection* dialog box.



- Click on the *Serial* button and *OK* to display the *Connect Serial* dialog box.



- Select the COM port that the HSZ80 controller is connected to (COM1 or COM2).
- Select a baud rate of 9600.
- Click *Connect* to display the *CLI Window*.



- Type:  
`set this_controller SCSI_version=SCSI_2`
- Type:  
`set this_controller host_function=B`
- Type:  
`set this_controller Command_Console_lun`

# 5

## Install the StorageWorks Software on the OpenVMS Host Machine

### Install the StorageWorks Software

- Insert the storage subsystem CD-ROM in the CD-ROM drive.

- Mount the CD-ROM with the command

```
mount/over=id (name of CD-ROM drive)
```

- Type

```
dir (name of CD-ROM drive): [000000.VMS]
```

and look for the directory *VMSdir*.

- Type

```
dir (name of CD-ROM drive): [000000.VMS]
```

and look for the *AXPVMS.txt* text file.

- Type

```
typ (name of CD-ROM drive): [000000.VMS]AXPVMS.txt
```

The system responds with the VMS install file name

```
DEC-AXPVMS-SWCC-VOZ01-133-1.PCSI
```

- Create a directory in which the file can be loaded.

```
create/dir $1$DKDZ:[000000]SWCC_VMS_install_sw.dir
```

- Copy to that directory.

```
copy (name of CD-ROM drive): [000000.VMS]AXPVMS.
```

```
pcs $1$DKDZ:[SWCC_VMS_install_sw]DEC-AXPVMS-SWCC-  
V0201-133-1.PCSI
```

- Set Default to that directory

```
set def $1$DKDZ:[SWCC_VMS_install_sw]
```

- Type

```
product install /source=[ ]SWCC
```

```
StorageWorks and Command Console Agent  
Installation and Configuration Menu
```

```
StorageWorks Options:  
-----
```

- 1) Install StorageWorks software
- 2) StorageWorks Maintenance

```
Agent Options:  
-----
```

- 3) Install Agent
- 4) Agent Maintenance

```
Q) Quit
```

- Choose option 1 in the *Installation* menu to install the StorageWorks software.

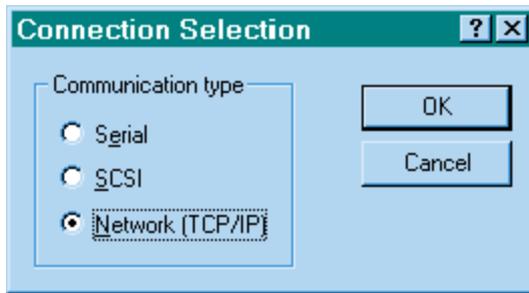
- Choose option 3 in the *Installation* menu to install the Command Console Agent. Follow the text-based prompts and enter appropriate information using Table 2-2, Section 2.1.3 of the *RA8000/ESA12000 HSZ80 Solution Software V8.3 for OpenVMS Installation Reference Manual*.

# 6

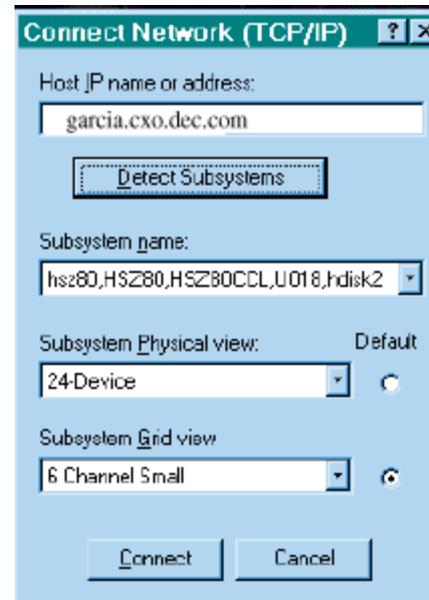
## Launch the SWCC Client

### Launch the Client

- Click on the Windows taskbar *Start* button.
- Move the pointer to *Programs* → *Command Console* → *HSZ80 Storage Window*; click on *HSZ80 Storage Window* to display the *Connection Selection* dialog box.



- Click on the *Network (TCP/IP)* button and *OK* to display the *Connect Network (TCP/IP)* dialog box.

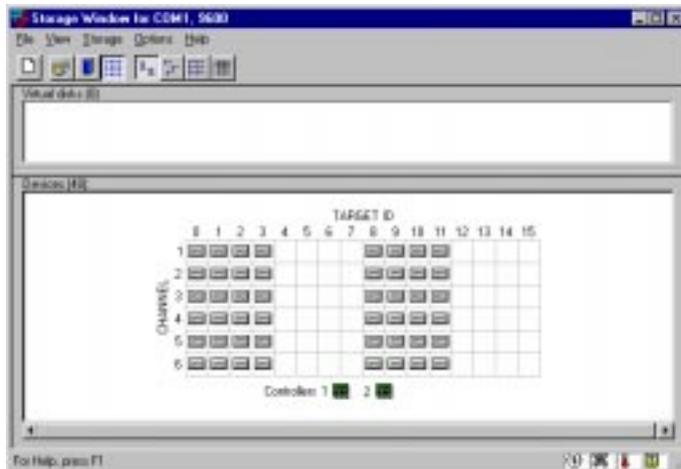


- Enter the OpenVMS host IP name; then click *Detect Subsystems*. Client searches and finds the storage subsystems connected to your OpenVMS host and displays them in the *Subsystem Name* text box.
- Select a storage subsystem and click the *Connect* button; after two to three minutes the *Storage Window* is displayed.

## 7 Verify Controller Properties

### Display SCSI Devices in the Devices Windowpane

- Click on *Storage* in the *Storage Window* menu line.
- Move the pointer to *Device* → *Add*; click on *Add*. SWCC finds installed drives and displays them in a grid by CHANNEL and SCSI TARGET ID number.



### Verify Properties

- Double-click on a controller icon in the *Storage Window*; the *Controller Properties* screen is displayed.
- Click on the tabs of the *Controller Properties* screen successively and confirm that the following values are set:

*General* tab      Allocation class: 0  
                         SCSI version: SCSI-2

*Host Ports* tab      Confirm that *Mode* is set to *B*  
                         for all target IDs

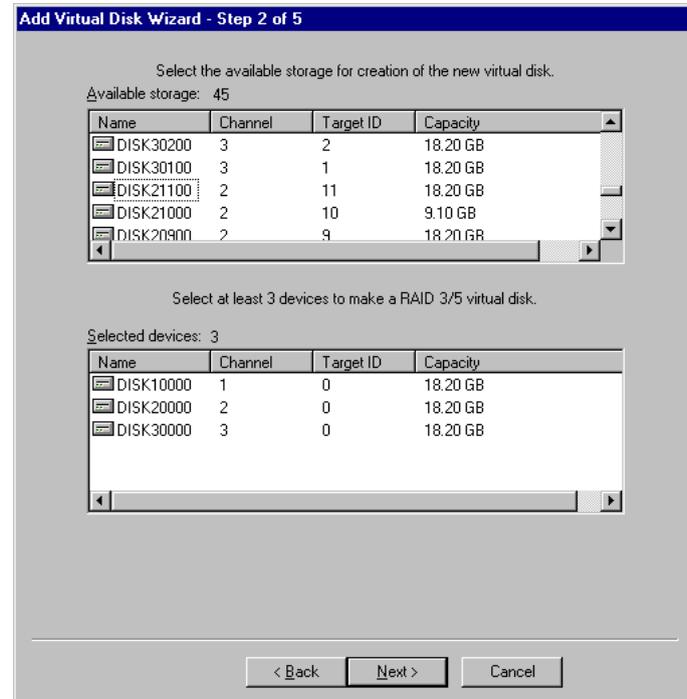
*Cache* tab      Cache flush time (seconds): 10  
                         Respond to internal cache  
                         battery condition: selected

*Communications LUN* tab      Confirm that the SWCC virtual LUN  
                         is enabled.

# 8

## Configure a Storage set

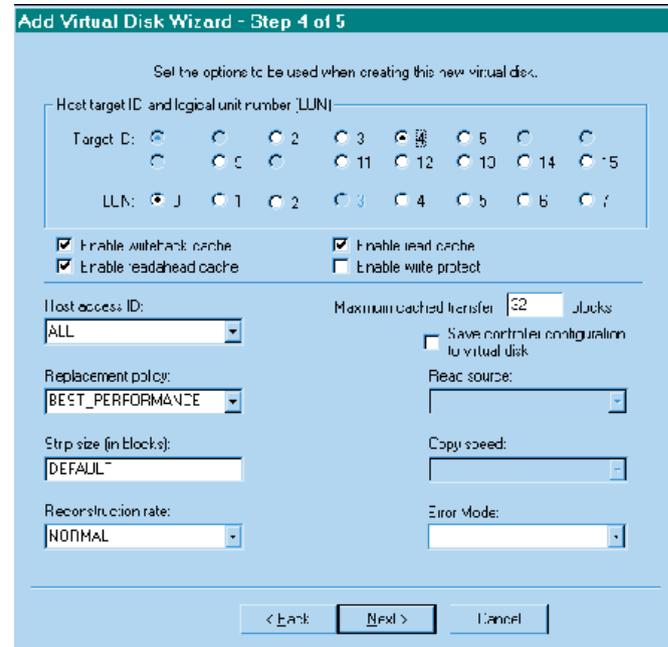
- Click on *Storage* in the *Storage Window* menu selection line and select *Add Virtual Disk* to begin Step 1 of the *Add Virtual Disk Wizard*.
- Click the *Striped parity device group (RAID 3/5)* radio button; click *Next>* for Step 2.
- Select the devices you want to include in the virtual disk by clicking on the disks listed in the *Available storage* windowpane; as you select a disk it is added in the *Selected devices* windowpane.
- Click *Next>* for Step 3.



# 8

## Configure a StorageSet (Cont'd)

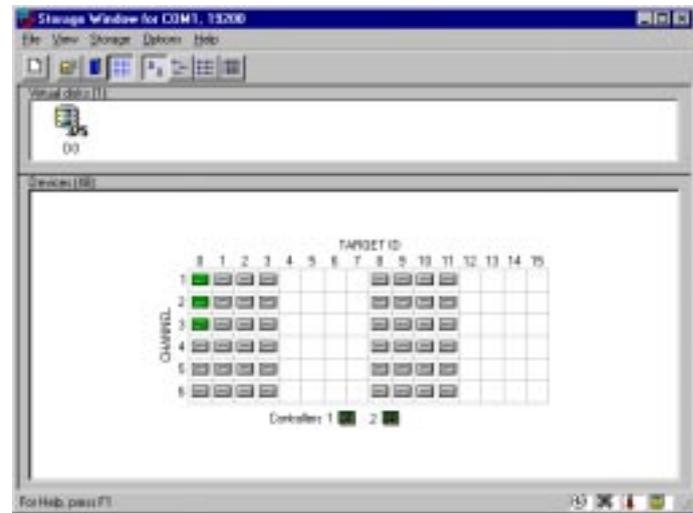
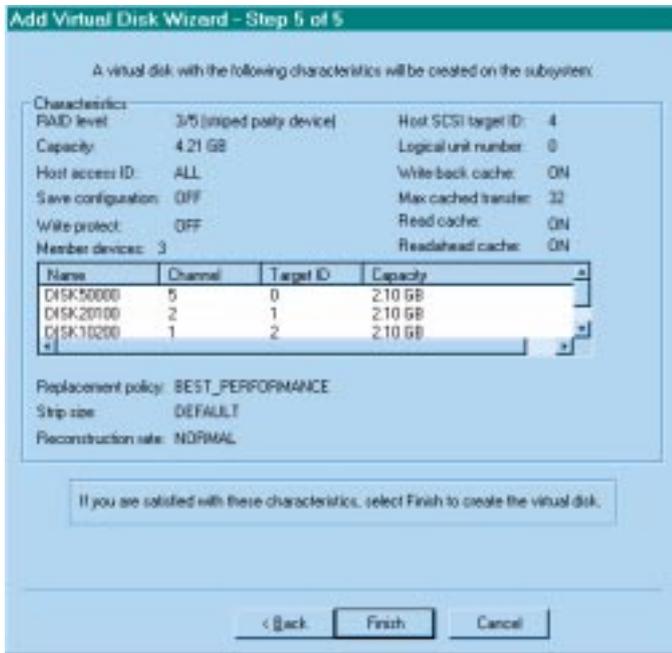
- Select the capacity for the virtual disk. You can select the maximum capacity or create partitions by selecting only a portion of the available maximum. If you create partitions, complete all steps for this partition; then access the Wizard again, make the same choices and create another partition.
- Click *Next>* for Step 4.
- Click on the box *Save controller configuration to virtual disk*.
- Click *Next>* for Step 5.

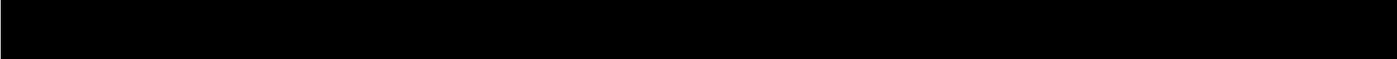


# 8

## Configure a StorageSet (Cont'd)

- Step 5 recaps your choices; if you are not satisfied, you can return to the applicable Wizard step using the *Back* button. When you are satisfied with your choices click *Finish*.
- When you return to the Storage Window you see the virtual disk you created illustrated in the *Virtual disks* windowpane. The hourglass on the disk icon indicates the StorageSet is being initialized. The drives you used to create the RAIDset are highlighted in the *Devices* windowpane.





## **Congratulations!**

You have now completed all the steps required to create an initial hardware configuration for your controller. For more information about using the SWCC software on the OpenVMS host refer to the *RA8000/ESA12000 HSZ80 Solution Software V8.3 for OpenVMS Installation Reference Manual*. For more information about using the SWCC software on the Windows host refer to the *CommandConsole User's Guide*.

COMPAQ recommends that you verify and record your configuration for future reference.

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