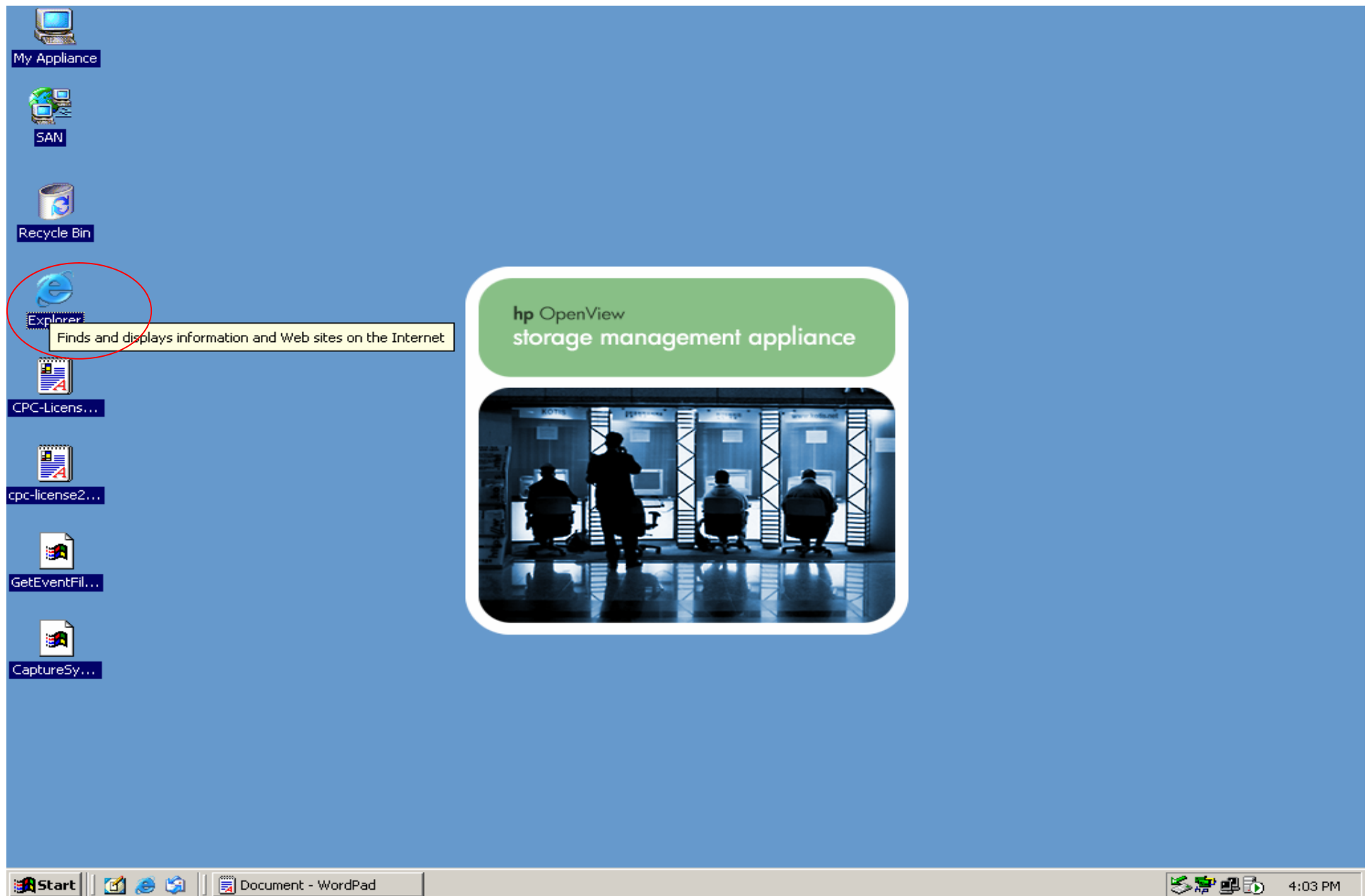


EVA Disk 교체

1) 바탕화면에서 Explorer를 click한다.



2) Device를 click합니다.

The screenshot shows the HP OpenView storage management appliance web interface. The browser window title is "hp OpenView storage management appliance - Microsoft Internet Explorer". The address bar shows the URL "http://smad332fk34h072/Tasks.asp?tab1=TabsHome". The page header includes the HP OpenView logo, a status warning, and the appliance name "SMAD332FK34H072". The navigation menu includes "Home", "Tools", "Devices", "Status", "Settings", "Help", and "?". Below the navigation menu, there are links for "Getting Started", "Tools", "Devices", "My Links", and "hp.com". The main content area is titled "Home" and contains a welcome message and four main sections: "Getting Started", "Tools", "My Links", and "hp.com". The "Devices" section is circled in red, indicating it is the target of the click.

hp OpenView storage management appliance

Status: Warning

Appliance Name: SMAD332FK34H072

Microsoft Windows Powered

Home Tools Devices Status Settings Help ?

Getting Started Tools Devices My Links hp.com

Home

Welcome to the HP OpenView Storage Management Appliance. The following links help you get started.

Getting Started
Configure your Storage Management Appliance for first use.

Tools
Comprehensive suite of storage monitoring and management tools.

My Links
Organize and link to web pages that you visit frequently.

hp.com
HP is a leading global provider of products, technologies, solutions, and services to consumers and businesses.

Devices
Discover, configure, and manage devices in your storage environment.

Done

Local intranet

Start Document - WordPad hp OpenView storage ... 4:04 PM

3) Command view eva를 click합니다.

hp OpenView storage management appliance - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://smad332fk34h072/tasks.asp?tab1=TabsDevices>

hp OpenView storage management appliance




Status: Warning Appliance Name: SMAD332FK34H072

Home Tools **Devices** Status Settings Help ?

Discovered Devices **command view eva** HSG element manager

Devices

The links on this page allow you to discover, configure, and manage devices in your storage environment, including disk arrays, controllers, switches, hubs, and servers.

-  **Discovered Devices**
Show all devices discovered in your storage environment.
-  **HSG element manager**
Manage and configure RAID array systems that are based on HSG controllers.
-  **command view eva**
Manage and configure RAID array systems that are based on HSV controllers.

Done Local intranet

Start Document - WordPad hp OpenView storage ... 4:04 PM

4) 해당되는 EVA를 click합니다.

The screenshot shows a Microsoft Internet Explorer browser window displaying the HP StorageWorks Command View EVA interface. The address bar shows the URL: <https://smad332fk34h072:2381/ResEltCpqFusion>. The page title is "SMAD332FK34H072: HSV Storage System - Microsoft Internet Explorer".

The interface includes a navigation menu with "Root View", "Agent Options", and "Help". The main content area is titled "HSV Storage Network Properties" and features a "Discover" button. Below this, a table displays the network properties:

HSV Storage System Network Properties	
Name:	HSV Storage System Network
Total HSV systems:	2
Total storage space:	18228.66 GB
Storage space used:	12123.25 GB
Available storage space:	6105.41 GB

The Windows taskbar at the bottom shows the Start button, several open applications (WordPad, hp OpenView storage ma..., SMAD332FK34H072: H...), and the system tray with the time 4:04 PM.

5) Hardware부분을 click합니다.

The screenshot shows the HP StorageWorks Command View EVA interface. The browser address bar indicates the URL: `https://smad332fk34h072:2381/ResEltCpqFusion`. The page title is "SMAD332FK34H072: HSV Storage System - Microsoft Internet Explorer".

The main content area displays "Disk Group Properties" for "Disk Group1". The interface includes a navigation pane on the left and a main content area with several sections:

- General** (selected) and **Vdisks** tabs.
- Identification** section:
 - Name: Disk Group1
 - UUID: 6005-08b4-0001-1779-0001-7000-0222-0000
- Capacity** section:
 - Total: 3551.64 GB
 - Available:
 - Vraid0: 362.12 GB
 - Vraid1: 181.08 GB
 - Vraid5: 289.77 GB
 - Total disks: 54
- Condition/State** section:
 - Operational state: Attention
 - Leveling state: Inactive
 - Leveling progress: n/a
 - RSS Disk state: Parity
- Disk failure protection** section:
 - Requested level: Single
 - Actual level: Single
- Occupancy** section:
 - Total: 3189.03 GB
 - Alarm level: 95 %
- Comments** section: A text input field.

The left navigation pane shows the "HSV Storage Network" tree. The "Hardware" folder is circled in red, indicating it is the target of the instruction. Other folders include "Virtual Disks", "Hosts", "Disk Groups", "Ungrouped Disks", "Data Replication", "Rack 1", "Rack 2", and "Unmappable Hardware".

The Windows taskbar at the bottom shows the Start button, several open applications (WordPad, hp OpenView storage ma..., SMAD332FK34H072: H...), and the system tray with the time 4:05 PM.

6) Disk에 정확히 X표시가 되어 있는것을 확인합니다.

- 이때 만약 X 표시가 아니고, 물음표로 표시된다면, SWMA를 reboot하세요.

The screenshot shows the HP StorageWorks Command View EVA web interface. The browser address bar displays `https://smad332fk34h072:2381/ResEltCpqFusion`. The page title is "SMAD332FK34H072: HSV Storage System - Microsoft Internet Explorer". The appliance information is "Appliance: SMAD332FK34H072 192.0.0.35".

The left sidebar shows a tree view of storage components. "Bay 13" is highlighted with a red circle and has a red 'X' icon next to it, indicating a problem. Other bays (10-14) have green icons, and Disk Enclosures 15-17 have yellow warning icons.

The main content area is titled "Disk Enclosure Bay Properties" and has tabs for "Disk Bay" and "Disk Drive". The "Disk Bay" tab is active. It contains the following information:

- Save changes** | **Code load** | **Locate** | ?
- Bay Identification**
 - Name: Disk Bay 13
 - Bay ID: 13
 - Enclosure ID: 16
 - Loop Pair: LoopPair1
- Condition/State**
 - Operational State: Populated (data disk)
- Location**
 - 1 2 3 4 5 6 7 8 9 10 11 12 13 14
- Comments**

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 4:19 PM and "Local intranet" indicator.

7) Reboot후에 정확히 X 표시를 확인하십시오.

- 만일 육안상으론 disk에 불량 표시가 들어 왔으나, SW적으로 확인시에 X 표시가 아니라면, 교체를 하시면 않습니다.

The screenshot shows the HP StorageWorks Command View EVA web interface. The browser address bar displays `https://smad332fk34h072:2381/ResEltCpqFusion`. The page title is "SMAD332FK34H072: HSV Storage System - Microsoft Internet Explorer". The interface includes a navigation menu with "Root View", "Agent Options", and "Help". The main content area is titled "Disk Enclosure Bay Properties" and features tabs for "Disk Bay" and "Disk Drive".

On the left sidebar, a tree view shows various disk enclosures and bays. Bay 13 is highlighted with a red circle and a red 'X' icon, indicating a failure. Other bays (10-14) show green icons, and other enclosures (15-17) show yellow warning icons.

The "Disk Bay" tab is active, displaying the following properties for Bay 13:

Bay Identification		Condition/State	
Name:	Disk Bay 13	Operational State:	<input checked="" type="checkbox"/> Populated (data disk)
Bay ID:	13		
Enclosure ID:	16		
Loop Pair:	LoopPair1		

Below the properties, there is a "Location" section with a row of 14 indicators, where the 13th indicator is highlighted. A "Comments" section is also present at the bottom of the main content area.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 4:19 PM and network status.

8) 불량 DISK를 손으로 빼면, 뵙뵙.. 약 2분간의 Alarm이 울리게 되어 있습니다.

Alarm소리가 없어진후, 30초를 더 기다리고, 새로운 disk를 꼽습니다.

새 disk를 추가후에 다시 30초를 기다린후.

8-1) 추가할 disk group를 click합니다.

8-2) 추가할 disk 갯수를 click합니다.- (이때 기본 1개로 되어 있습니다.)

8-3) Add disk 부분을 click합니다.

The screenshot shows the HP StorageWorks Command View EVA web interface. The browser window title is "SMAD332FK34H072: HSV Storage System - Microsoft Internet Explorer". The address bar shows "https://smad332fk34h072:2381/ResEltCpqFusion". The main content area displays the "Add Disks to Disk Group" dialog box. The dialog has a title bar with "Add disks" and "Cancel" buttons, and a text input field with the value "1" and a question mark. The left sidebar shows a tree view of the storage network, with "Disk Group1" highlighted. The bottom taskbar shows the Start button, several application icons, and the system tray with the time "4:25 PM".