

Centralized Management

iStacking

Ethernet Switch

ZyNOS 4.0

Support Notes

Version 4.00

Nov 2011

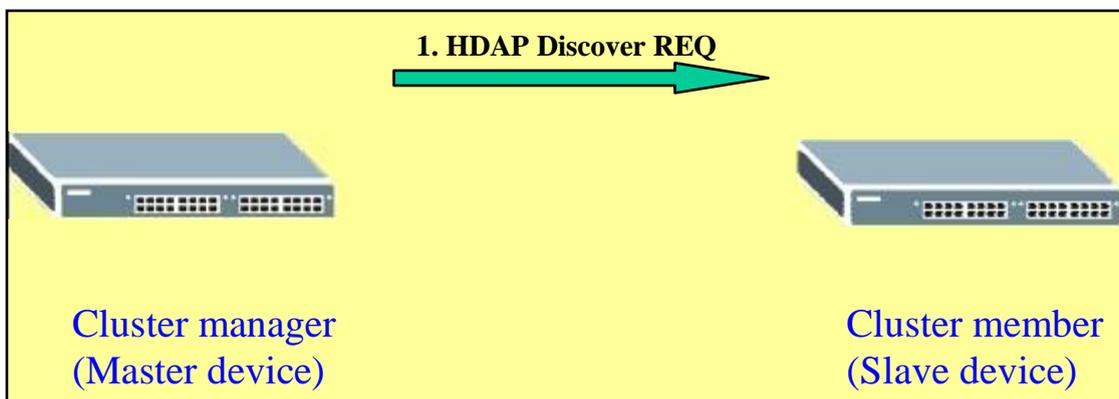


Cluster Management Overview

Cluster Management allows you to use a single IP to manage up to 24 switches simultaneously in the same broadcast domain and the same VLAN group ID. The cluster manager which can manage other switches is called the master device. The other terminology that can be used for cluster management is “iStacking”.

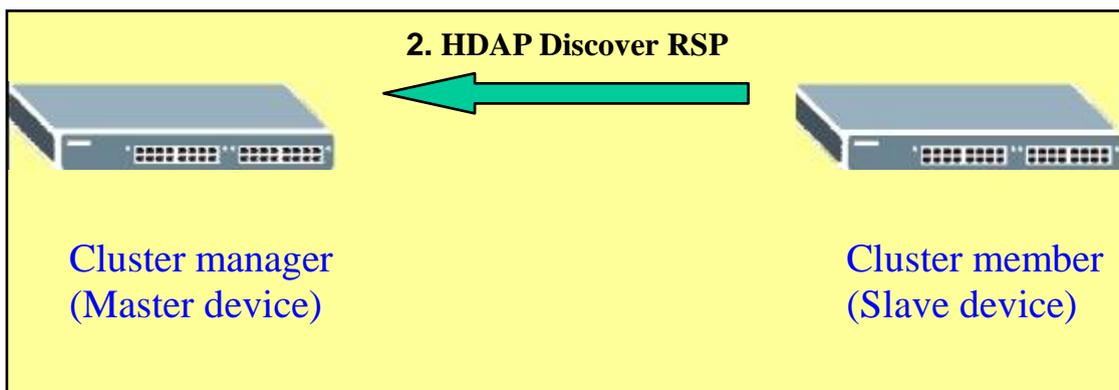
- **How Cluster Management works**

Step 1:



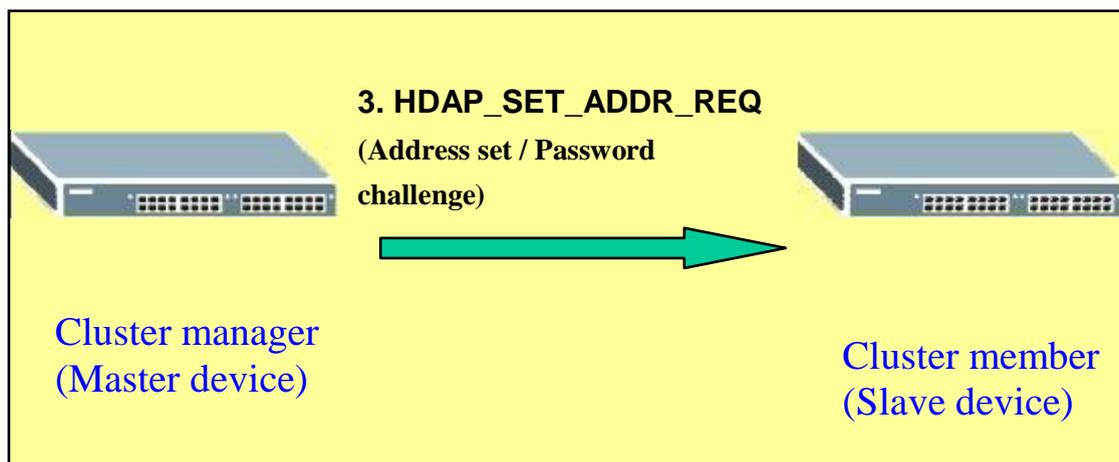
To discover the clustering members, the clustering Manager broadcasts a HDAP (Host Discovery and Address assignment Protocol) Discover request.

Step 2:



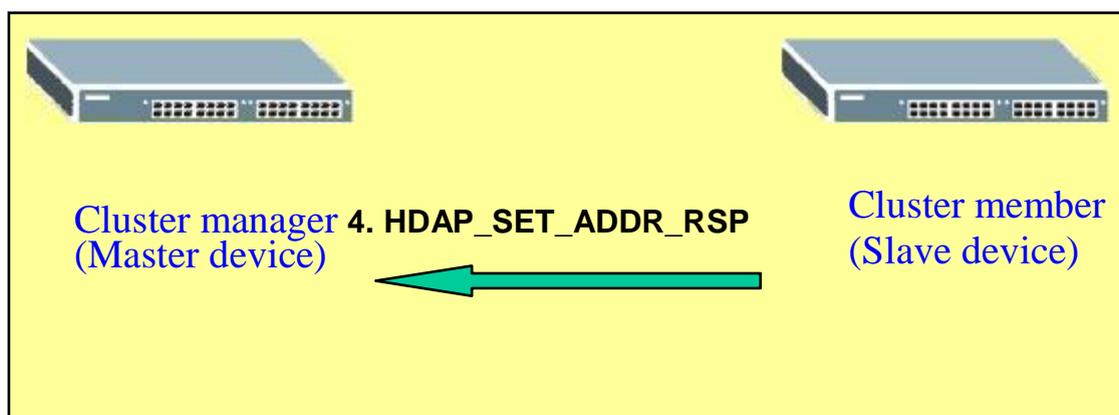
A clustering member listens on UDP port 263. When a clustering member receives a request with the matching signature, it answers with a HDAP Discover Response. In the response, the clustering member provides identity information about itself.

Step 3:



HDAP_SET_ADDR_REQ (Master device) packet request is used for a clustering manager to assign an IP address and a subnet mask to a clustering member.

Step 4:



HDPA_SET_ADDR_RSP (Slave device) packet response is for a clustering member to acknowledge a "Set Address" request. The hardware address uniquely identifies the sender of this response.

After the processes are done, the cluster master will be able to manage the

slave switch.

- **How to set up Cluster Management in a switch**

Step 1:

Clustering Management Configuration [Status](#)

Clustering Manager:

Active	Name	VID
<input type="checkbox"/>		1

Apply Cancel

Clustering Candidate:

List	Password

Go to menu: “Management” → “Cluster Management” → “Clustering Management Configuration”

In “Clustering Management Configuration” page, check the “Active” check box to enable Cluster Manager.

In the middle of this page, there is a table showing all the clustering candidates which can be selected and added as the clustering members.

Step 2:

Active	<input checked="" type="checkbox"/>
Name	Master
VID	1

Clustering Candidate:

List	00a0:c5:3c:4e:43/ES-3024/ES-3024 00a0:c5:ab:03:08/ES-4024/ES-4024
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Password	****
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Select a device in the Clustering Candidate table and enter the password which is the admin password for the candidate device to add it as the clustering member.

Step 3:

Clustering Management Status		Configuration		
Status	Manager			
Manager	00:a0:c5:ab:03:03			
The Number Of Member = 2				
Index	HwAddr	Name	Model	Status
1	00:a0:c5:3c:4e:43	ES-3024	ES-3024	Online
2	00:a0:c5:ab:03:08	ES-4024	ES-4024	Online

Click on the index number to manage the selected clustering member.

Step 4:



In “**Member Menu**” pages, you can change any setting of the clustering member, except for **Cluster Management, Firmware Upgrade and Restore Configuration**.

Step 5:

Clustering Management Status [Configuration](#)

Status	Manager
Manager	00:a0:c5:ab:03:03

The Number Of Member = 2

Index	HwAddr	Name	Model	Status
1	00:a0:c5:3c:4e:43	ES-3024(slave)	ES-3024	Offline
2	00:a0:c5:ab:03:08	ES-4024	ES-4024	Online

Enter “Management”->”Cluster Management”->”Clustering Management Status:” In “Clustering Management Status” pages, you can check the status of each member.

Step 6:

Clustering Candidate:

List

Password

Index	HwAddr	Name	Model	Remove
1	00:a0:c5:3c:4e:43	ES-3024(slave)	ES-3024	<input type="checkbox"/>
2	00:a0:c5:ab:03:08	ES-4024	ES-4024	<input checked="" type="checkbox"/>

Enter “Management”->”Cluster Management”->”Clustering Management Configuration:” In “Clustering Management Configuration” page you can

remove a cluster member by checking the remove checkbox and then clicking on the **Remove** button.