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Cluster Management Commands-1

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Chapter 1 Cluster Management Commands

1.1 rndp

[Function]

Enable and disable RNDP (Raisecom Neighbor Discovery Protocol).

[Command Format]

`rndp` {*enable* / *disable*}

[Parameter]

enable: RNDP enable;

disable: RNDP disable.

[Default]

enable on all the ports

[Command Modes]

Global configuration mode or physical configuration mode; privileged user

[Executing Command Instruction]

RNDP is used to discover the directly connected switch within a LAN, obtain and record device information. RNDP is the foundation for RTDP (Raisecom Topology Discovery Protocol). Generally speaking, they are used together. Only if the device is discovered by RNDP, the device can be discovered and its parameters can be collected by RTDP. User can disable RNDP to deny other devices within the LAN to discover it; RNDP also can be disabled on particular port.

[Command Executing Echo]

Set successfully.

Set unsuccessfully.

[Example]

Deny RNDP globally:

Raisecom(config)#**`rndp disable`**

Enable RNDP globally:

Raisecom(config)#**`rndp enable`**

Deny RNDP under physical port configuration mode:

Raisecom(config-port)#**`rndp disable`**

[Related commands]

Commands	Description
show rndp	Show RNDP configuration information
show rndp neighbor	Show RNDP neighboring information.

1.2 rtdp

[Function]

Enable and disable RTDP (Raisecom Topology Discovery Protocol) function.

[Command Format]

rtdp { *enable* / *disable* }

[Parameter]

enable: enable RTDP collection function.

disable: disable RTDP collection function.

[Default]

switch RTDP function disable.

[Command Modes]

Global configuration mode; privileged user.

[Executing Command Instruction]

RTDP is used to collect all switches' information, which support the RTDP and RNDP function is started. When **rtdp enable** command is applied to start RTDP collection function, RTDP will collect information of all the switches within specified collection scale (use **rtdp max-hop command** to set). Generally speaking, RTDP and RCMP (Raisecom Cluster Management Protocol) are used together. In cluster management, when the user wants to enable the cluster management function of cluster member device within the protocol, user should start RTDP to find out this device and get basic information for the device.

[Explanation of command execution echo]

Set successfully.

Set unsuccessfully.

[Example]

Deny RTDP collection globally:

Raisecom(config)#**rtdp disable**

Enable RTDP collection globally:

Raisecom(config)#**rtdp enable**

[Related commands]

Commands	Description
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rtdp max-hop	Set RTDP the maximum collection scale
show rtdp	Show RTDP config information
show rtdp device-list [HHHH.HHHH.HHH][hostname] [detailed]	Show RTDP device list information.

1.3 rtdp max-hop

[Function]

The maximum hop of RTDP (Raisecom Topology Discovery Protocol)

[Command Format]

rtdp max-hop <1-16>

no rtdp max-hop

[Parameter]

<1-16>: the maximum collection scale parameter (hop); first hop starts from directly connected device.

no: command used to recover default setting.

[Default]

The maximum hop of RTDP is 16 hops

[Command Modes]

Global configuration mode; privileged user.

[Executing Command Instruction]

Use this command to limit the range of RTDP collection.

[Explanation of command execution echo]

Set successfully.

Set unsuccessfully.

[Example]

Set the max-hop of FTDP to 2 hops:

Raisecom(config)# **rtdp max-hop 2**

Recovery the max-hop of RTDP to 16 hops:

Raisecom(config)# **no rtdp max-hop**

[Related commands]

Commands	Description
rtdp max-hop	Set the max-hop of RTDP.
show rtdp	Show RTDP config information
show rtdp device-list [HHHH.HHHH.HHH][hostname] [detailed]	Show RTDP device list information.

1.4 show rndp

[Function]

Show RNDP configuration information.

[Command Format]

show rndp

[Command Modes]

Privileged EXEC; privileged user.

[Executing Command Instruction]

User can use this command to check the RNDP global enable state and port enable state.

[Explanation of command execution echo]

The second and third line show the RNDP enable and port enable state respectively.

Global RNDP Configuration:

RNDP feature is currently enabled on the switch

Participant ports: 1-26

[Related commands]

Commands	Description
rndp	Set RNDP enable status
show rndp neighbor	Show RNDP adjacent information

1.5 show rndp neighbor

[Function]

show RNDP neighbor information.

[Command Format]

show rndp neighbor

[Command Modes]

Privileged EXEC; privileged user.

[Executing Command Instruction]

User can use this command to check RNDP found neighbor information.

[Explanation of command execution echo]

The first line shows the MAC address of neighbor device

The second line shows the port numbers that is used to connect current device and neighbor device.

The third line shows the port numbers that is used to connect neighbor device and current device

The fourth line shows the device systemID, each device has exclusive systemID, i.e. ISCOM2826 system ID is 60003, but ISCOM2126 is 60005.

The fifth line shows the device hostname.

<i>Mac Address</i>	<i>LocalPort</i>	<i>RemotePort</i>	<i>SysID</i>	<i>Hostname</i>

000e.5e00.c2c4	1	9	60003	swB
000e.5e11.4d0b	17	18	60003	Raisecom
000e.5e23.34e2	17	24	60003	Raisecom

[Related commands]

Commands	Description
rndp	Set the enable status of RNDP
show rndp	Show RNDP configuration information.

1.6 show rtdp

[Function]

Show RTDP configuration information.

[Command Format]

show rtdp

[Command Modes]

Privileged EXEC; privileged user.

[Executing Command Instruction]

user can use this command to check RTDP configuration information.

[Explanation of command execution echo]

RTDP max-hop: 16

RTDP collecting feature: Disabled

RTDP reporting feature: Enabled

[Related commands]

Commands	Description
rtdp	Set RTDP enable status
rtdp max-hop	Set maximum collection scope of RTDP
show rtdp device-list <i>[HHHH.HHHH.HHH]/hostname</i> [detailed]	Show RTDP found device-list information

1.7 show rtdp device-list

[Function]

Show RTDP collection information.

[Command Format]

show rtdp device-list [*HHHH.HHHH.HHHH* / *hostname*] [**detailed**]

[Parameter]

HHHH.HHHH.HHHH: the MAC address of need shown device;

hostname : the hostname of the device;

detailed: show detail device information.

[Command Modes]

Privileged EXEC; privileged user.

[Executing Command Instruction]

User can use this command to check RTDP collected device information.

[Explanation of command execution echo]

The first line shows the MAC address of the device.

The second line showing: the device is found from which port.

The third line showing the device is found from which hop.

The fourth line showing the device system ID, each device has exclusive system ID, i.e. ISCOM 2826 system ID is 60003, but ISCOM 2126 system ID is 60005

The fifth line showing the device hostname.

Execution echo Detail information:

RTDP discovery device-list:

<i>MAC Address</i>	<i>RcvdPort</i>	<i>Hop</i>	<i>SysID</i>	<i>HostName</i>

000e.5e00.c2c2	1	2	60003	swD
000e.5e00.c2c8	1	2	60003	swC
000e.5e00.c2c4	1	1	60003	swB

RTDP search by mac 000e.5e00.c2c4 result:

<i>MAC Address</i>	<i>RcvdPort</i>	<i>Hop</i>	<i>SysID</i>	<i>HostName</i>

000e.5e00.c2c4	1	1	60003	swB

-Device cluster information:

Identity: member

Commander MAC: 000e.5e00.c366

AutoActive: on

AutoActive MAC: 000e.5e00.c366

-Device adjacency information:

MAC Address	Native Port	Remote Port
000e.5e00.c2c2	24	9
000e.5e00.c2c8	1	9

Detail information not only showing all the concise information, but also adding two other following information.

Device cluster information, including:

DeviceID(identity): can be member/candidate/commander;

Commander MAC: it is the MAC address of Commander that can be automatically active by device, and if the device is not the member, do not show the information.

AutoActive on-off(AutoActive): represent whether this device can be automatically active , can be on/off.

AutoActive MAC: the MAC address of Commander that can be automatically active, if the device is not allowed to be automatically active, do not show the information.

Device adjacent information:

The first line represents the downlink MAC address.

The second line represents the port number of the device that is used to connect the adjacent device.

The third line represents the port number of the adjacent device used to connect device.

[Related commands]

Commands	Description
rtdp	Set RTDP enable status.
rtdp max-hop	Set the maximum range of RTDP.
show rtdp	Show configuration information of RTDP.



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