# ZyXEL ES-3024 V3.50(DT.6)C0

# Release Note/Manual Supplement

**Date: August 24, 2004**

This document describes the features in the ES-3024 product for its 3.50(DT.6)C0 release.

## *Support Platforms:*

ZyXEL ES-3024 V3.50(DT.6)C0 supports models: Dimension ES-3024

## *Version:*

ZyNOS Version: V3.50(DT.6) | 08/24/2004 07:49:13
BootBase Version: V1.0 | 04/27/2004 16:07:04

## *Known Issue:*

1. Bootbase is updated to V1.0. But FCS version doesn't need to be updated to V1.0. Only the new produced ES-3024 should be updated to V1.0
2. Owning to hardware limitation, the links number in a trunk will shrink when some ports fail in LACP configuration instead of fail-over. We recommend using static trunk configuration in this switch

## *Bug Fix:*

1. Switch does not response in some condition after a long period of time

## *Features:*

1.

## *Firmware Upgrade:*

The ES-3024 uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, ftp.exe in Windows) to upgrade ES-3024. The upgrade procedure is as follows:

**Upgrade ES-3024 FW:**

```
C:\> ftp <ES-3024 IP address>
User : <Enter>
Password: 1234
230 Logged in
ftp> put 350DT6C0.bin ras
ftp> bye


Where
```

- User name : just press <Enter>
- Password : the management password, 1234 by default
- 350DT6C0.bin : the name of firmware file you want to upgrade
- ras : the internal firmware name in ES-3024

## *Configuration Upgrade:*

The ES-3024 uses FTP to upgrade configuration in run-time through its built-in FTP server. You can use any FTP client (for example, ftp.exe in Windows) to upgrade ES-3024. The upgrade procedure is as follows:

**Upgrade ES-3024 configuration:**

```
C:\> ftp <ES-3024 IP address>
User : <Enter>
Password: 1234
230 Logged in
ftp> put 350DT6C0.rom rom-0
ftp> bye
```

Where

- User name : just press <Enter>
- Password : the management password, 1234 by default
- 350DT6C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in ES-3024

## *Commands Table:*

sys

| | | | | | |
|---|---|---|---|---|---|
| monitor | status | | | | show h/w monitor status |
| | show | | | | show h/w monitor statistics |
| | vlimit | <idx> | <high> | <low> | set voltage <idx> with <high> <low> limit |
| | tlimit | <idx> | <limit> | | set temperature <idx> with <limit> limit |
| | flimit | <bank> | <idx> | <limit> | set fan <idx> RPM limit in bank <bank> |
| | fanmask | <bank> | [<mask>] | | set fan detection mask in bank <bank> |
| | vclear | | | | clear voltage statistics |
| | tclear | | | | clear temperature statistics |
| | fclear | | | | clear fan statistics |
| | clear | | | | clear h/w monitor statistics |
| | enable | [<on/off>] | | | enable/disable h/w monitor |
| | test | | | | test h/w monitor chip |
| ixe2424 | lbt | intlbt | <port\|All> | [count] | Internal loop back test on given port or All ports. |
| | | extlbt | <port\|All> | [count] | External loop back test on given port or All ports. |
| | log | level | [0-4] | | Log level |
| | | switch | on/off | | Log to tracelog. (Current diplay to console directly) |
| | memdump | <start_addr> | <length> | | Dump the memory map that ixe2424 mapped to. |
| | wreg | <addr> | <value> | | Write to a register |
| | rreg | <addr> | | | Read from a register |
| | pktcnt | <port> | | | Display port statistic counter |
| | pktcntclear | <port> | | | Reset port statistic counter |
| | show_int_count | | | | Display interrupt counter |
| | clear_int_count | | | | Reset interrupt counter |
| snmp | getCommunity | [<community>] | | | Set or view community of GetRequest. |
| | setCommunity | [<community>] | | | Set or view community of SettRequest. |
| | trustedHost | [<hsot>] | | | Set or view trusted host. |
| | trapCommunity | [<community>] | | | Set or view community of Trap |
| | trapDest | [<destination>] | | | Set or view trap server. |
| | disp | | | | View snmp setting. |
| cluster | active | <name> | | | Active cluster |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | inactive | <name> | | | Inactive cluster |
| | | add | <MAC addr> | <password> | | Add a member into cluster |
| | | remove | <MAC addr> | | | Remove a member from cluster. |
| | | showMemeber | | | | Show member list |
| | | showCandidate | | | | Show candidate list |
| | | status | | | | Show cluster status |
| config | save | | | | | Save configuration |

Switch commands: The following commands are under "**sys switch** "

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| garp | status | | | | | | | show garp timer status |
| | timer | <join timer(ms)> | <leave timer(ms)> | <leave all timer<ms> | | | | set garp timer <join timer> <leave timer> <leave all timer> |
| gvrp | status | | | | | | | show gvrp status |
| | enable | | | | | | | enable gvrp function |
| | disable | | | | | | | disable gvrp function |
| qos | defpri | <port> | [<0..7>] | | | | | set the default ingress User Priority for this port <port>. |
| | map | <0..7> | [<queue>] | | | | | User Priority to Traffic Class mapping. |
| vlan1q | port | status | <port> | | | | | show port <port> VLAN information. |
| | | defaultVID | <port> | <VID> | | | | set defaultVID<VID> of this port<port>. |
| | | accept | <port> | <all\|tagged> | | | | set acceptFrameType of this port. |
| | | gvrp | <port> | <enable\|disable> | | | | Enable/disable the gvrp function of this port <port>. |
| | svlan | cpu | <VLAN ID> | | | | | Set VLAN ID of cpu. |
| | | setentry | <name> | <VID> | <port> | <adctl> | <<tagctl> | set static entry.<VID> |
| | | delentry | <VID> | | | | | delete static entry<VID> |
| | | active | <VID> | | | | | active the static entry with <VID> |
| | | inactive | <VID> | | | | | inactive the static entry with <VID> |
| | | list | | | | | | show the static entry table. |
| | vlan | list | <all\|vid\|start_vid end_vid> | | | | | Show vlan1q current table. |
| driver | count | disp | | | | | | Show the switch NDIS level counters(CPU interface) |
| | | clear | | | | | | Clear the switch NDIS level counters(CPU interface) |

| | | | | | |
|---|---|---|---|---|---|
| rstp | | | | | Please reference to 802.1w |
| | bridge | | | | |
| | | enable | | | Enable RSTP |
| | | disable | | | Disable RSTP |
| | | priority | <priority> | | System Priority |
| | | maxAge | <max age> | | Max age timer |
| | | helloTime | <hello time> | | Hello timer |
| | | forwardDelat | <forward delay time> | | Forward delay time |
| | | version | <STP:0\|RSTP:2> | | Operation Mode |
| | port | | | | |
| | | enable | <Port_NO> | | Enable this port under RSTP protocol |
| | | disable | <Port_NO> | | Disable this port under RSTP protocol |
| | | pathCost | <Port_NO> | | Cost of this path |
| | | priority | <Port_NO> | | Priority |
| | | edgePort | <Port_NO> | | If this port is an edge port |
| | | p2pLink | <Port_NO> | | Whether the Port concerned can only be connected to exactly one other Bridge or can be connected to two or more Bridges |
| | | mcheck | <Port_NO> | | 802.1w chapter 17.18.10 |
| lacp | | | | | Please reference to 802.3ad |
| | agg | | | | Display aggregation information |
| | port | | | | |
| | | enable | <Port_NO> | | |
| | | disable | <Port_NO> | | |
| | | status | <Port_NO> | | |
| | | actorAdm | | | Actor means local side |
| | | | activity | [Port_NO] | [0:passive\|1:active] |
| | | | display | [Port_NO] | |
| | | | key | [Port_NO] | [Key] |
| | | | priority | [Port_NO] | [Priority] |
| | | | timeout | [Port_NO] | [0:long_timeout\|1:short_timeout] |
| | | status | | | |
| | | keymgnt | [on\|off] | | |
| | | sysPriority | <priority> | | |
| dot1x | | | | | Please reference to 802.1x |

| | | | | | | |
|---|---|---|---|---|---|---|
| | enable | | | | | Enable dot1x |
| | disable | | | | | Disable dot1x |
| | status | | | | | Show dot1x global status |
| | port | | | | | |
| | | enable | <Port_NO> | | | Enable this port |
| | | disable | <Port_NO> | | | Disable this port |
| | | reauth | <Port_NO> | <on\|off> | | Re-authentication |
| | | reauthPeriod | <Port_NO> | <value> | | Re-authentication period |
| | | status | <Port_NO> | | | Port status |
| | set | | | | | |
| | | auth | <profile \| radius> | | | Set authentication method |
| | | portcontrol | <port-no> | <auto \|auth \| unauth> | | Set port authentication status |
| | radius | | | | | |
| | | server | <IP> | | | Server IP |
| | | secret | <secret> | | | Secret key |
| | | port | <port> | | | Server port |
| | | show | | | | Display server setting |
| | profile | | | | | (Won't be saved in flash) |
| | | add | <username> | <passwd> | | Add a user profile |
| | | delete | <idx> | | | Delete a user profile |
| | | list | | | | List profile setting |
| class | | | | | | Class setting |
| | display | | | | | display run-time status |
| | l2set | <src port> | <src MAC> <src vid> | <dest port> | <dest MAC> <dest vid> | Set src/dest port/MAC combination |
| | del | <class id> | | | | Delete this class |
| bmstorm | | | | | | Broadcast Storm Control |
| | disable | | | | | Clear current run-time settings |
| | type | <type> | | | | Broadcast/Multicast/Both |
| | basis | <type> | | | | Pkt/Byte |
| | display | [index] | | | | Display ports setting |
| | interval | [value] | | | | Set/display monitor interval |
| | set | <port> | <dhreshold> | <direction> | | Threshold:# of pkt can be passed in the interval<br>Direction:ingress/egress |
| | del | <index> | | | | Disable on this port |
| mac | static | | | | | Static MAC setting |
| | | disable | | | | Clear current run-time settings |
| | | display | [port] | | | display run-time status |
| | | set | <port> | <MAC Addr.> | <vid> | Set static MAC of the port |
| | | del | <port> | <MAC | <vid> | Delete static MAC of the |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Addr.> | | port |
| filter | | | | | | MAC filter setting |
| | disable | | | | | Clear current run-time settings |
| | display | | | | | display run-time status |
| | set | <src port> | <src MAC> <src vid> | <dest port> | <dest MAC> <dest vid> | Set src/dest port/MAC combination ( Use “*” as “don’t-care” in each field) |
| mirror | | | | | | Mirror setting |
| | disable | | | | | Clear current run-time settings |
| | display | | | | | display run-time status |
| | set | <src port> | <src MAC> <src vid> | <dest port> | <dest MAC> <dest vid> | Set src/dest port/MAC combination for mirror settings ( Use “*” as “don’t-care” in each field) |
| | | <input\|output\|both> | | | | |
| | port | <port> | | | | What port mirror to |
| bw | | | | | | Bandwidth Control setting |
| | disable | | | | | Clear current run-time settings |
| | display | | | | | display run-time status |
| | set | <src port> | <src MAC> <src vid> | <dest port> | <dest MAC> <dest vid> <Max BW> | Set src/dest port/MAC combination ( Use “*” as “don’t-care” in each field) |
| trunk | | | | | | Trunking setting |
| | disable | | | | | Clear current run-time settings |
| | display | | | | | display run-time status |
| | set | <group> | <# ports> | | | Set trunking group |
| | del | <group> | | | | del trunking group |

| | | | | | |
|---|---|---|---|---|---|
| ip | dhcp | <Iface> | mode | <none \| client> | Change DHCP mode for interface <Iface> |
| | | | status | | Show DHCP status |
| | | | client | release | Release the IP address |
| | | | | renew | Renew the IP address. |