

# FS700TS switch – Configuring LAG

## **LAG – Definition**

Link Aggregation optimizes port usage by linking a group of ports together to form a single LAG. Aggregating ports multiplies the bandwidth between the devices , increases port flexibility, and provides link redundancy.

Ports added to a LAG lose their individual port configuration.

When ports are removed from the LAG, the original port configuration is applied to the ports

## **Notes when setting-up LAG**

- All ports within a LAG must be the same media type.
- A VLAN is not configured on the port.
- The port is not assigned to a different LAG.
- Auto-negotiation mode is not configured on the port.
- The port is in full-duplex mode.
- All ports in the LAG have the same ingress filtering and tagged modes.
- All ports in the LAG have the same back pressure and flow control modes.
- All ports in the LAG have the same priority.
- All ports in the LAG have the same transceiver type
- The device supports up to eight LAGs with eight ports in each LAG.

## **Setting-up a LAG between two FS728TS Firmware V1.0.1.22 (700 Series)**

### **Working instructions**

On both devices

- 1) Log on to the device using the Smart Wizard or via the URL `http://<<switchaddress>>`
- 2) Browse to Switch – LAG Configuration – LAG Membership
- 3) Click on the LAG port chosen
- 4) Set the LAG name to for example **Bundle1**
- 5) From the port pool in the bottom of the page select which ports should be part of the link (with Regards to the Notes above)
- 6) Click apply
- 7) Repeat point 1 – 6 on the second switch

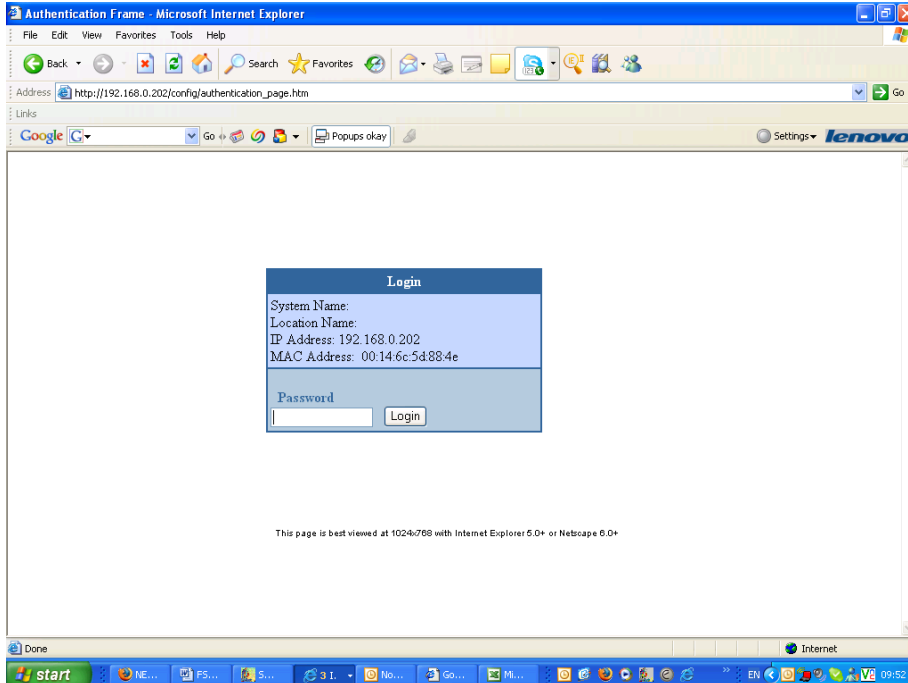
### **Verify the LAG is working**

- 1) Log on to the device using the Smart Wizard or via the URL `http://<<switchaddress>>`
- 2) Browse to Switch – LAG Configuration – LAG Membership
- 3) Verify if the LAG set-up appears as Link-Up (in bold it will possible to see the interfaces that are currently up and participating to the LAG

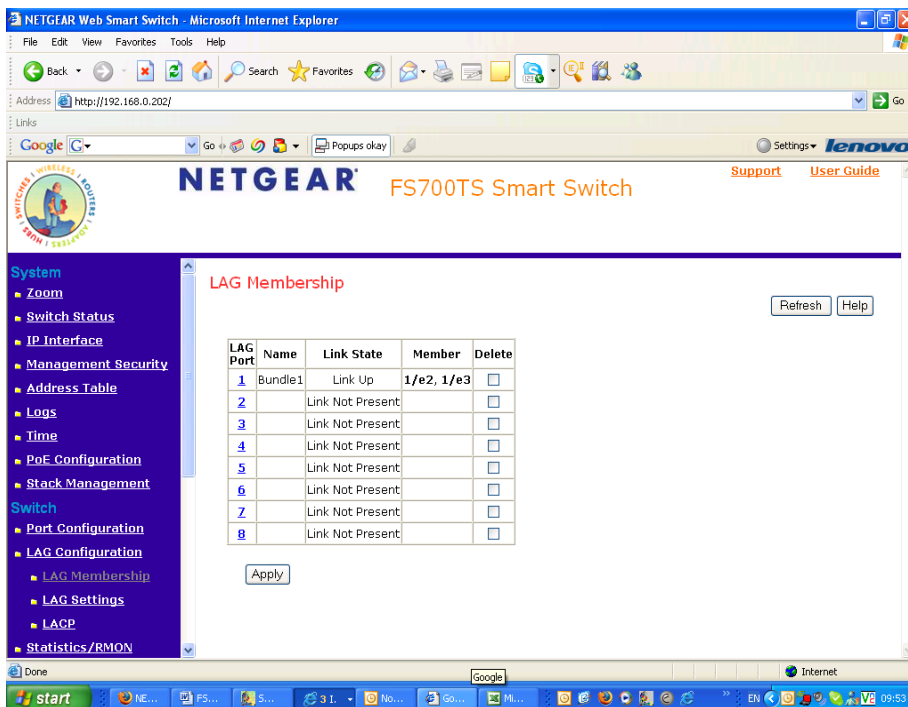
## Setting-up a LAG (Web-GUI)

On both devices

- 1) Log on to the device using the Smart Wizard or via the URL `http://<<switchaddress>>`



- 2) Browse to Switch – LAG Configuration – LAG Membership



3) Click on the LAG port chosen

NETGEAR Web Smart Switch - Microsoft Internet Explorer

Address: http://192.168.0.200/home.htm

### LAG Membership

Refresh Help

LAG Port	Name	Link State	Member	Delete
1		Link Not Present	<input type="checkbox"/>	<input type="checkbox"/>
2		Link Not Present	<input type="checkbox"/>	<input type="checkbox"/>
3		Link Not Present	<input type="checkbox"/>	<input type="checkbox"/>
4		Link Not Present	<input type="checkbox"/>	<input type="checkbox"/>
5		Link Not Present	<input type="checkbox"/>	<input type="checkbox"/>
6		Link Not Present	<input type="checkbox"/>	<input type="checkbox"/>
7		Link Not Present	<input type="checkbox"/>	<input type="checkbox"/>
8		Link Not Present	<input type="checkbox"/>	<input type="checkbox"/>

Apply

- Address Table
- Password
- Logs
- Time
- PoE Configuration
- Stack Management
- Switch
  - Port Configuration
  - LAG Configuration
    - LAG Membership
    - LAG Settings
    - LACP
  - Statistics/RMON
  - QoS
  - Security
  - VLAN
  - Monitor

4) Set the LAG name to for example **Bundle1**

NETGEAR Web Smart Switch - Microsoft Internet Explorer

Address: http://192.168.0.200/home.htm

### Modify LAG Settings

Interface: 1

LAG Name: **Bundle1**

LACP:  Enable  Disable

Admin Status: Up

Link Status:

Reactivate Suspended LAG:

Operational Status: Active

Admin Speed:

Current LAG Speed:

Admin Duplex: Full

Current Admin Duplex:

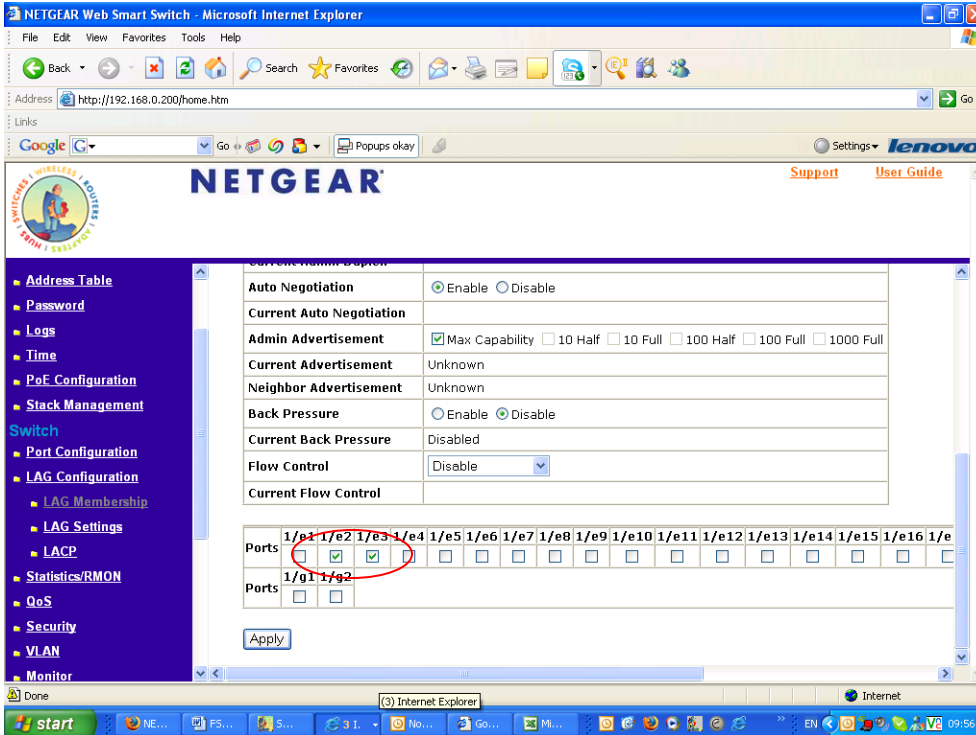
Auto Negotiation:  Enable  Disable

Current Auto Negotiation:

Error on page.

- Address Table
- Password
- Logs
- Time
- PoE Configuration
- Stack Management
- Switch
  - Port Configuration
  - LAG Configuration
    - LAG Membership
    - LAG Settings
    - LACP
  - Statistics/RMON
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  - VLAN
  - Monitor

5) From the port pool in the bottom of the page select which ports should be part of the link (with Regards to the Notes above)

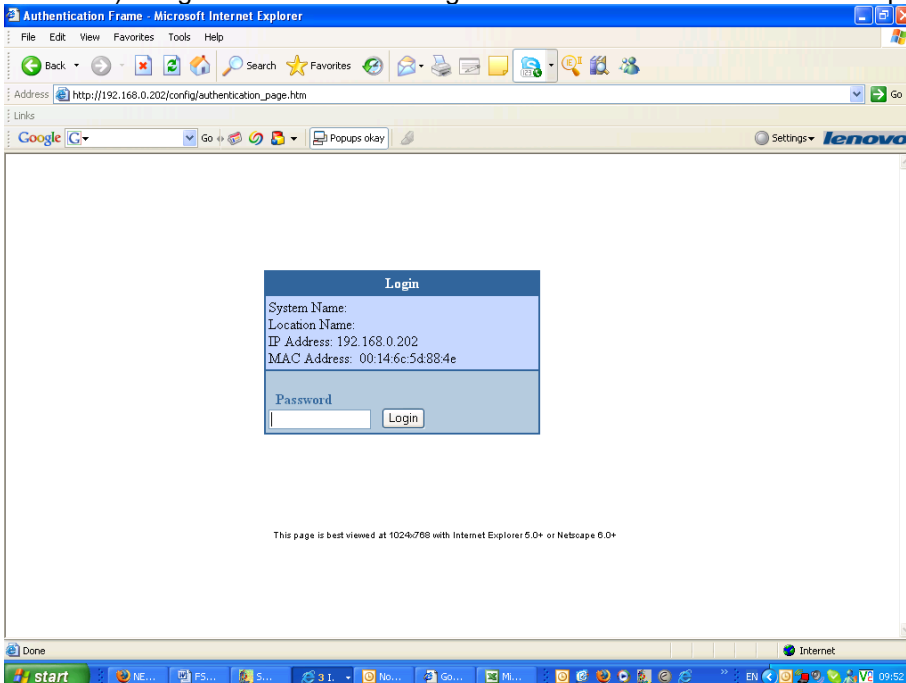


6) Click apply

7) Repeat point 1 – 6 on the second switch

### Verify the LAG is working (Web-GUI)

4) Log on to the device using the Smart Wizard or via the URL <http://<<switchaddress>>>



5) Browse to Switch – LAG Configuration – LAG Membership

The screenshot shows the NETGEAR Web Smart Switch interface for an FS700TS Smart Switch. The browser window is titled "NETGEAR Web Smart Switch - Microsoft Internet Explorer" and the address bar shows "http://192.168.0.202/". The page header includes the NETGEAR logo and "FS700TS Smart Switch". A left sidebar contains a navigation menu with categories like System, Switch, and Stack Management. The main content area is titled "LAG Membership" and contains a table with the following data:

LAG Port	Name	Link State	Member	Delete
1	Bundle1	Link Up	1/e2, 1/e3	<input type="checkbox"/>
2		Link Not Present		<input type="checkbox"/>
3		Link Not Present		<input type="checkbox"/>
4		Link Not Present		<input type="checkbox"/>
5		Link Not Present		<input type="checkbox"/>
6		Link Not Present		<input type="checkbox"/>
7		Link Not Present		<input type="checkbox"/>
8		Link Not Present		<input type="checkbox"/>

Buttons for "Refresh", "Help", and "Apply" are visible on the page.

6) Verify if the LAG set-up appears as Link-Up (in bold it will possible to see the interfaces that are currently up and participating to the LAG)

