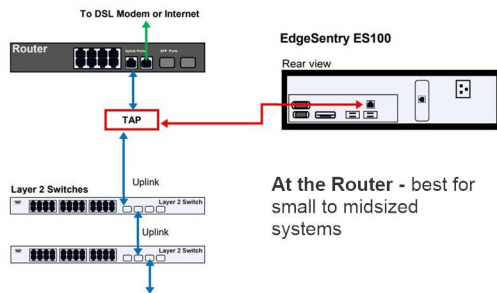


ES100 Installation Checklist

Checklist for a TAP installation

Option 1



At the Router - best for small to midsized systems

Either of the TAP installations requires the following:

(2) **Standard CAT6 Ethernet cables** - for connection of the TAP to the neighboring switches or Router

(1) **Standard CAT6 Ethernet cable** - for connection of the TAP Monitor port to the ES100 Listening Port.

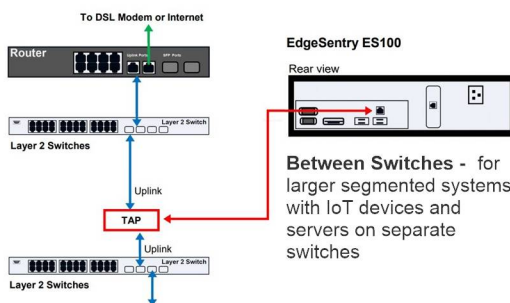
(1) **Standard CAT6 Ethernet cable** - for connection of the ES100 Outbound Email port to a DHCP port on the network.

2 Power connections:

(1) Standard Mains connection for the ES100

(1) 5VDC power connection for the Network TAP - recommend using a UPS backed up USB brick or equivalent.

Option 2



Between Switches - for larger segmented systems with IoT devices and servers on separate switches

Checklist for a SPAN installation

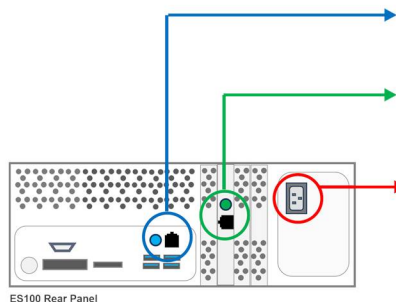
For a SPAN port connection to the network:

(1) **Standard CAT6 Ethernet cable** - for connection of the Switch SPAN port to the ES100 Listening Port.

(1) **Standard CAT6 Ethernet cable** - for connection of the ES100 Outbound Email port to a DHCP port on the network.

1 Power connection:

(1) Standard Mains connection for the ES100



ES100 Rear Panel

Network Resources:

1/ **IP Address** on the monitored network for the ES100 (to be entered in the CORE at startup)

2/ **Subnet Mask, Gateway**

3/ **DHCP port** for outbound SMTP (email) connection or static ip address / port with outbound internet access

Computer for ES100 Software: **Configuration Tool** (required) and **Dashboard** (Optional)

Windows 10 or higher desktop - Note that the Configuration Tool and Dashboard software is client software and is NOT designed to run on the ES100 device.

(A) - Choose the connection type

The ES100 must be connected to the network using either a (sold separately) Network TAP (Pages 1-2) or a Span Port on a properly configured managed network switch (Page 3).

Option 1a - Using a TAP located close to the Router

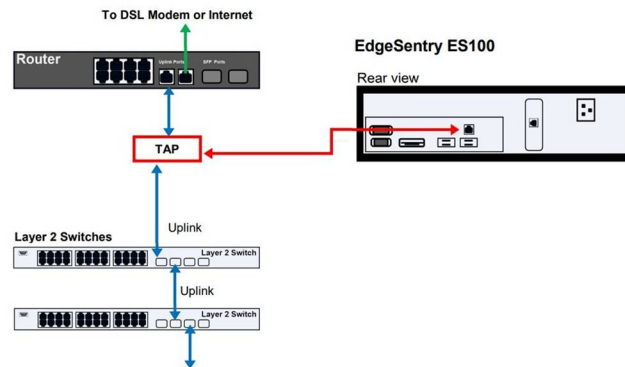
Connecting the ES100 to a network TAP located between the last switch in the chain and the Router.

PRO

- Suitable for most system sizes
- Simple to configure
- Visibility of **Off LAN connections**
- Compatible with unmanaged switches
- Excellent visibility of network activity

CON

- Some IT departments PROHIBIT or require special permission for the use of network TAPs on their network
- Interruption of the TAP's power breaks communications on the link
- Can create high volumes of data on large systems



Option 1b - Using a TAP located between two switches

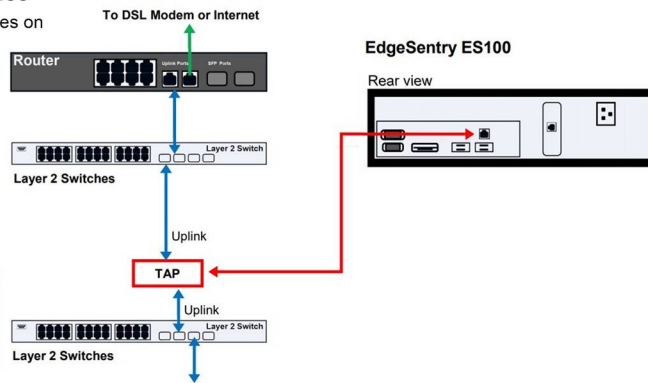
Connecting the ES100 to a network TAP located between two switches on the system.

PRO

- Suitable for mid-large systems
- Simple to configure
- Reduced load on the ES100 from OffLan network traffic
- Compatible with unmanaged switches
- Moderate visibility of network activity

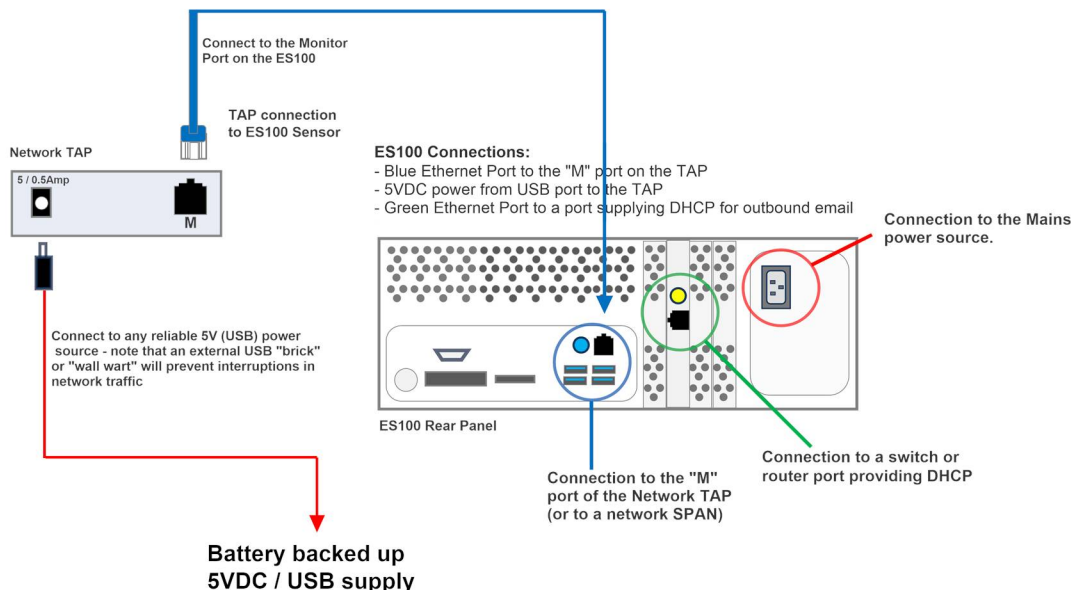
CON

- Some IT departments PROHIBIT or require special permission for the use of network TAPs on their network
- Interruption of the TAP's power breaks communications on the link
- Little or NO visibility of **OFF LAN Connections**



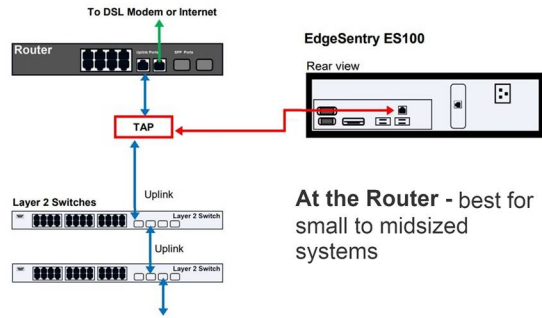
(A) - Connect the TAP to the ES100

Connect the TAP to the ES100 - Connect the "M" port to the ES100 port marked with a Blue Dot

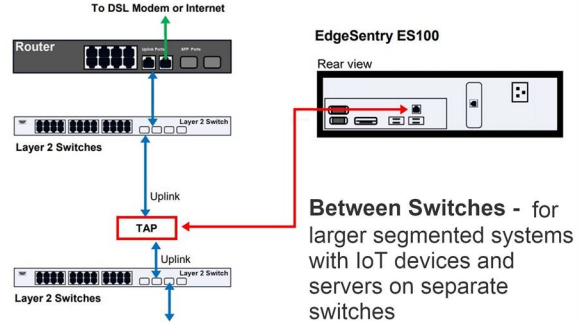


(B) - Connect the TAP to the Network

Option 1

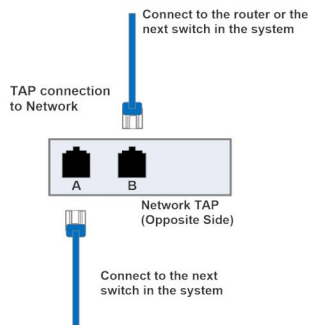


Option 2



- OR -

(C) - Connect the TAP to the Network

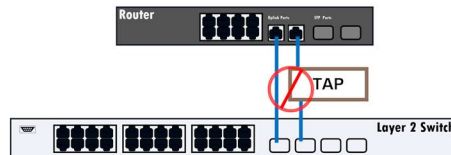


TAP Power

- The network TAP will cause a network outage if it loses power.
- consider using a USB "brick" or "wall wart" connected to a UPS for the TAP power supply.

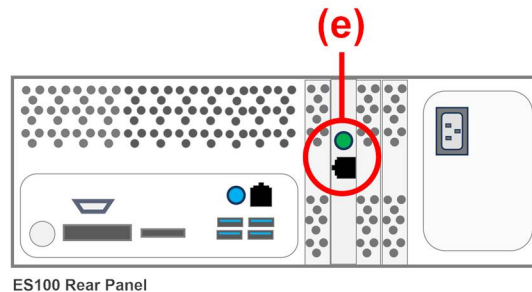
Connect the TAP to the Network

- replace an existing connection, do NOT duplicate a connection between the switches/router



(D) - Connect the ES100 Outbound Email Port to the Router

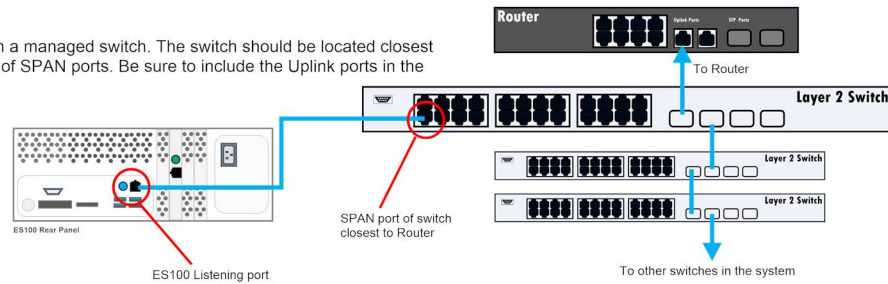
- 1/ Connect the Outbound Email Port (e) (marked with a green dot) to a DHCP port on the router which is configured for internet access
- 2/ Connect the supplied AC Power Cord to the ES100 and proceed to the steps outlined in the Quick Start Configuration Guide.



SKIP TO PAGE 4 - "First Power Up"

Option 2 - Using a Network SPAN

The ES100 to a SPAN port on a managed switch. The switch should be located closest to the router and support use of SPAN ports. Be sure to include the Uplink ports in the Span configuration.



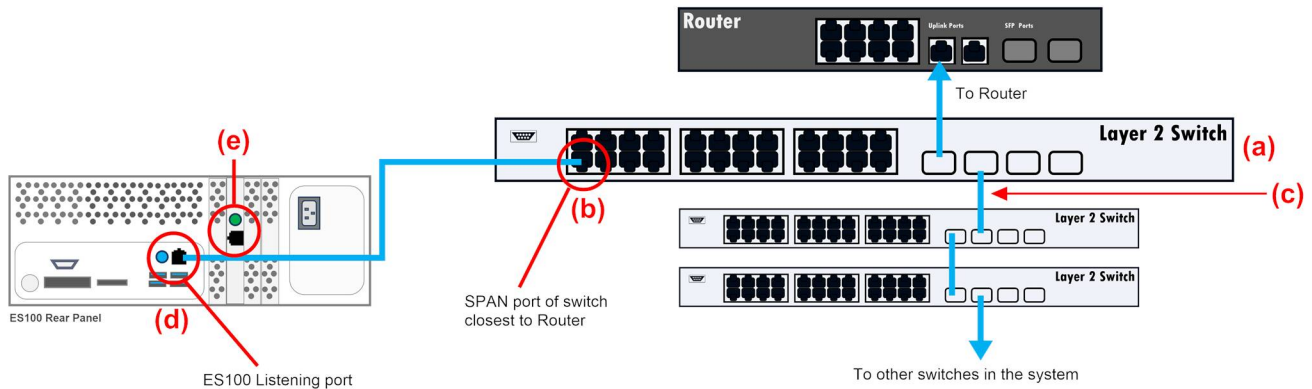
PRO

- Better for small to mid-sized systems (the SPAN port has to handle high bandwidth)
- Visibility of **Off LAN connections**
- Not dependant on external device or power

CON

- Requires use of a managed switch with SPAN capability and a gigabit port for use as a SPAN port.
- Requires some familiarity with switch programming
- Bandwidth exceeding port or processor limitations can cause packets drops

- 1/ Ensure that you are working with a Managed switch and that it allows configuration of a SPAN port
- 2/ Configure the SPAN port on the switch closest to the Router (a)
- 3/ Choose a spare port to configure as the SPAN port (b)
- 4/ In the switch configuration menus assign the ports that will send their communications to the SPAN port
- 5/ Be sure to assign the incoming uplink port (c) from the other switches in the system
- 6/ If unsure, include all ports in the span configuration



(B) - Connect the ES100 Outbound Email Port to the Router

- 7/ Connect the SPAN port to the ES100 Listening Port (d). It is the Ethernet Port with blue dot next to it.
- 8/ Connect the Outbound Email Port (e) (marked with a green dot) to a DHCP port on the router which is configured for internet access
- 9/ Connect the supplied AC Power Cord to the ES100 and proceed to the steps outlined in the Quick Start Configuration Guide.