Network Documentation Best Practices

What's Important & How To Track It

- **Critical network documentation**
- **Useful network documentation**

Critical Network Documentation

L1/L2 drawings (Physical)

- Physical connectivity and layout of your network.

- Should consist of all of your network devices and firewalls at a minimum.

- Includes EtherChannels between two devices.

- Include interfaces on each end of the link.

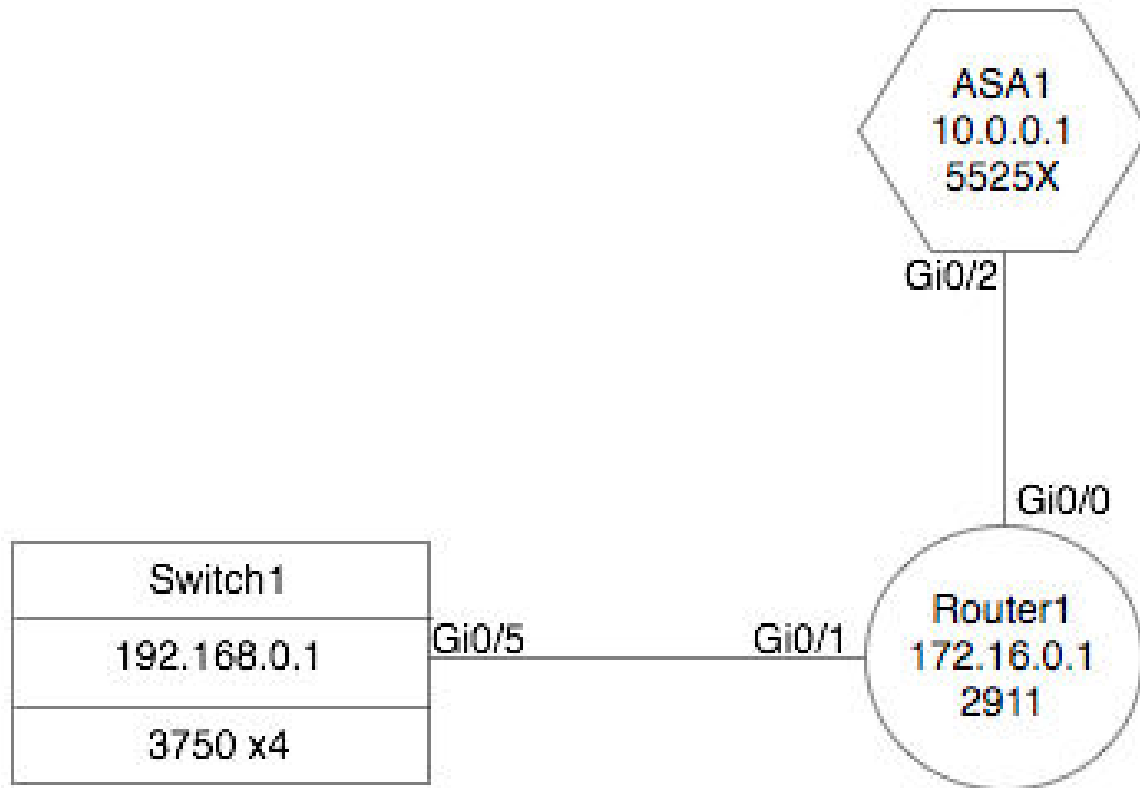- Simple, clean, and informative.

Shapes

Switches (and other devices)

Routers

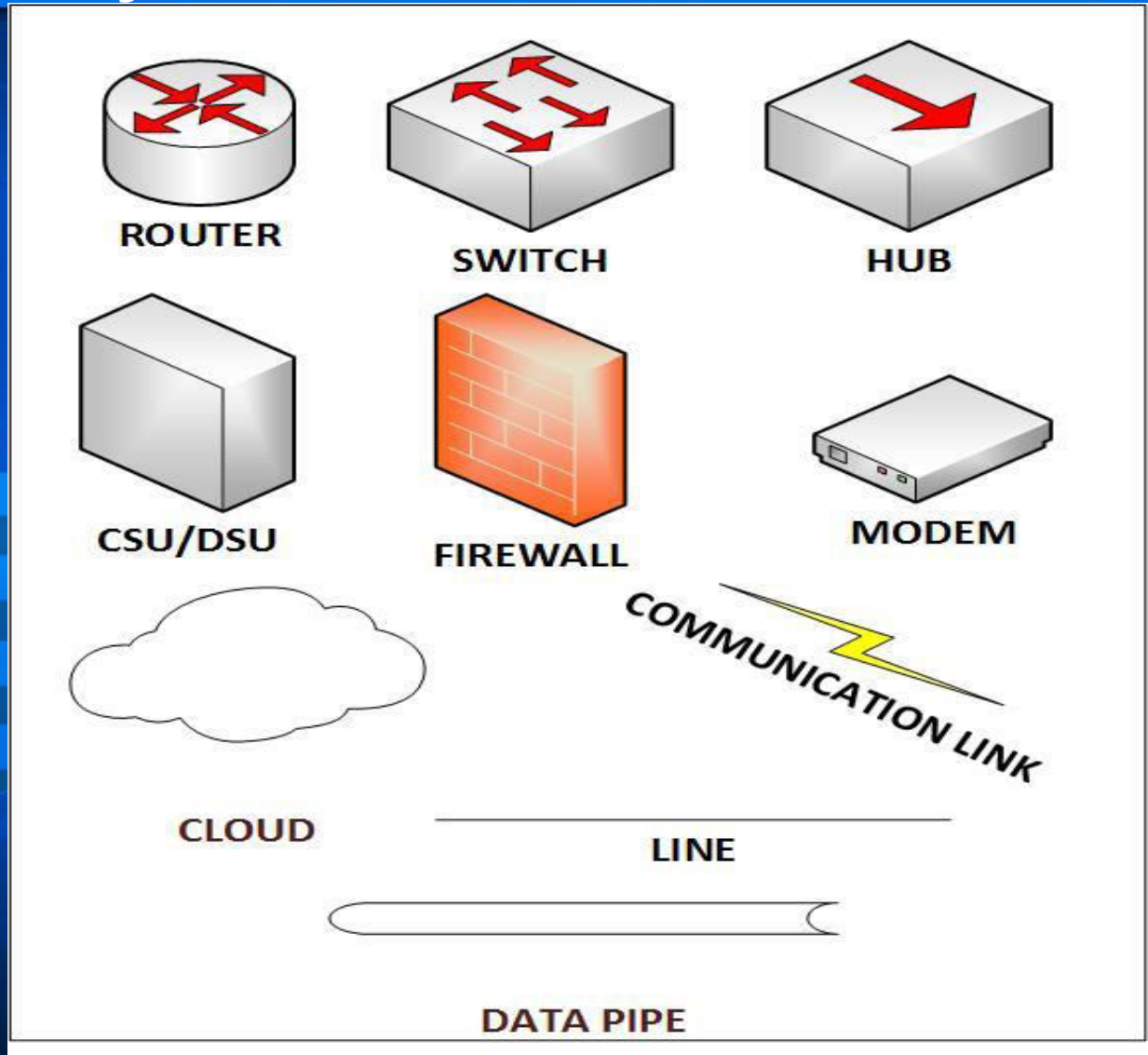Firewalls

Physical

Critical network documentation

L3 drawings (Logical)

- Should include every device that is involved with routing in your network.

- The drawing should again use simple objects that include the same details.
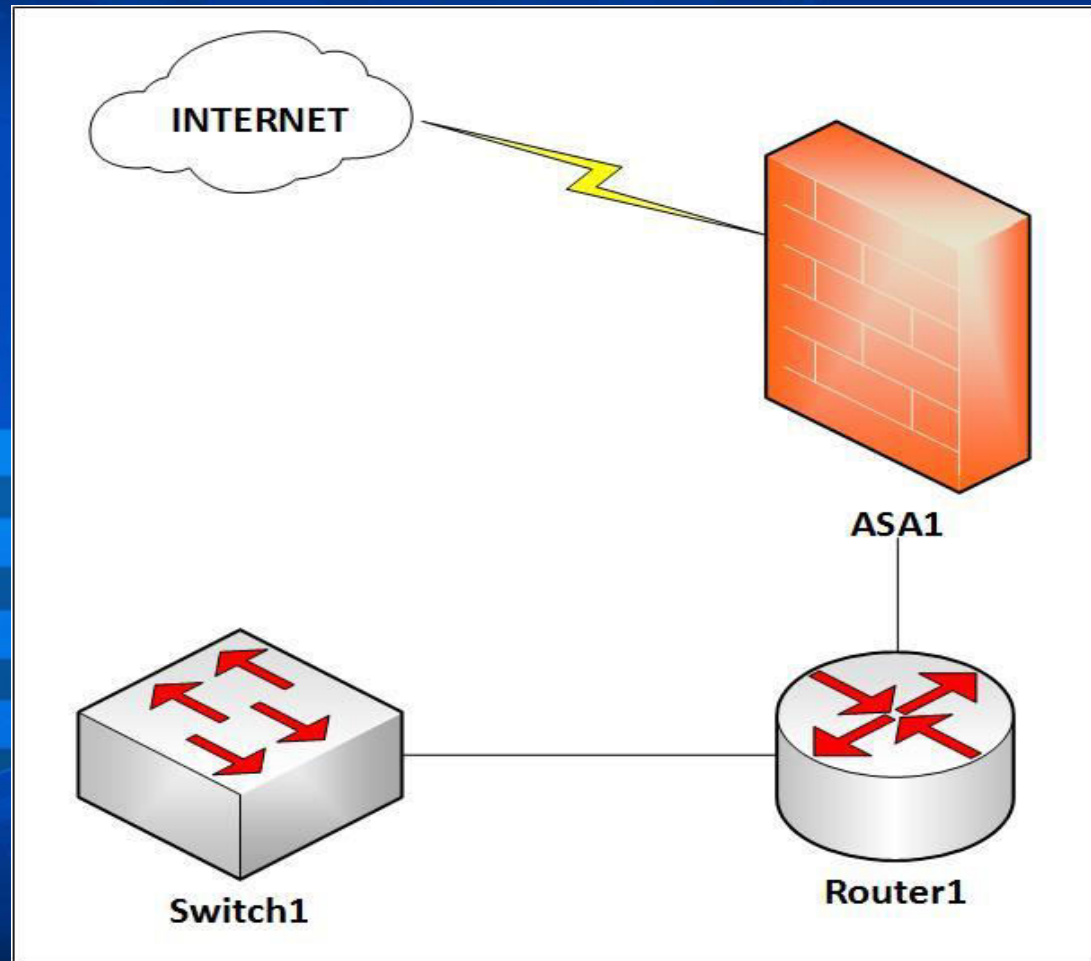
- Use of generic topology icon.

Topology Icons/Symbols

Logical

Circuit Inventory

- Circuit ID: (12/ABCD/123456/MC)

- Circuit Type (DSL/Frame relay/ISDN/Leased line,VSAT)

- Bandwidth (1.5Mbps, 50Mbps, 75Mbps CIR)

- WAN Type (P2P, MPLS, Internet)

- Termination equipment (RTR-BRANCH1)

- Carrier (PLDT, Globe, Eastern Tel)

- Carrier NOC # (+632 929 6626)

- 1stHOP (123 Some St, Dil, Q.C.)

- NxtHOP (456 Some St, Ortigas, Pasig)

- Turn up date (6/29/2017)

- Contract expiration (6/28/2018)

- Notes

IP address allocation table

Supernet	Subnet >=/24	Mask	Use
10.10.1.0/30		Regional Office	
	172.16.20.0	/24	Data VLAN
	172.16.109.0	/24	Voice VLAN
	172.16.21.0	/24	Data Reserve VLAN
	172.16.22.0	/24	Voice Reserve VLAN
??		Branch #1	
	??	/24	Data VLAN
	??	/24	Voice VLAN

Summary Table

Critical network documentation

IP address allocation table

			Main Site			
Network :172.16.20.0/24						
VLAN ID:10						
		Address	Hostname	Description	Date Assigned	Assigned by who
		0	Network	Network	---	---
		1	MAIN-VLANXX-GW	Default Gateway/HSRP address	2/1/2010	ICT Focal CO
		2	SWX-VLANX	Switch 1 VLAN interface	2/1/2010	ICT Focal CO
		3	SWX-VLANX	Switch 2 VLAN interface	2/1/2010	ICT Focal CO
		4		Reserved for network		
		5		Reserved for network		
		6		Reserved for network		
		7		Reserved for network		
		8		Reserved for network		
		9		Reserved for network		
		10		Reserved for network		
		11		Reserved for network		
		12		Reserved for network		
		13		Reserved for network		
		14		Reserved for network		
		15		Reserved for network		
		16				
		255	Broadcast	Broadcast Address		

Useful Network Documentation

Rack layout diagram
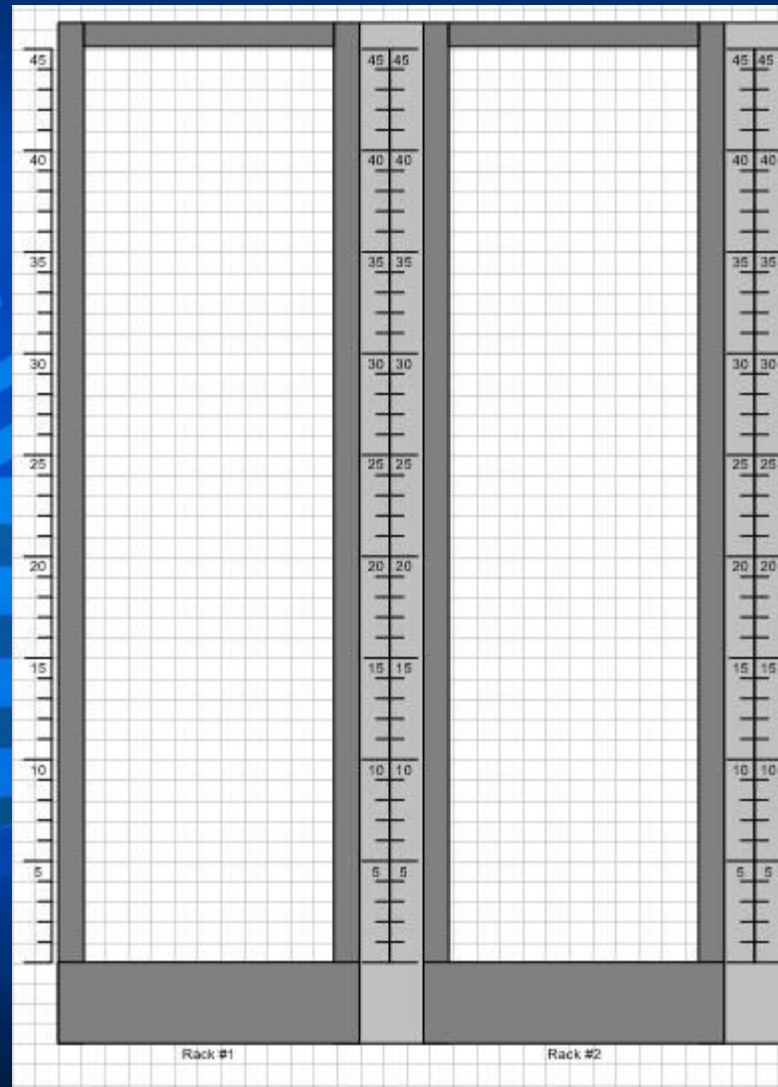
Wi-Fi diagram

Cable plan

SECOND FLOOR PULL BOX LAYOUT
SCALE   1:400

Patching table

Network Patch Panel Table					
Patch Panel ID	**Port ID**	**End Point**	**Office**	**Location**	**Remarks**
PPID-48-001-A	A1	Workstation	Accounting	Main Bldg. (2nd Flr.)	Accounting Chief
Server Room	A2	IP Phone	Budget	Main Bldg. (Gnd Flr.)	
	A3	Workstation	Accounting	Main Bldg. (2nd Flr.)	
	A4	AP001	Lobby	Main Bldg. (Gnd Flr.)	
	A5	AP002	ORD	Main Bldg. (3rd Flr.)	Regional Dir Office
	.				
	.				
	.				
	A48	C3560 Switch	LMS	LMS Bldg. (2nd Flr.)	Trunk port to LMS
PPID-24-001-B	B1				
Server Room	B2				
	B3				
	B4				
	B5				
	.				
	.				
	.				
	B24				

Asset tracking

Network
Documentation
Best Practices:
What's Important
& How To Track It

END OF SLIDES
THANK YOU VERY MUCH.