Campus Network Best Practices: Hints on Network Diagrams

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Network Diagram Hints

• Use separate diagrams for separate layers
  – Physical (cabling)
  – Switching (layer 2)
  – Routing (layer 3)
  – Frequently can combine Switching/Routing

• Helpful to have the physical diagram be an overlay on your campus map to show relations and distances between buildings

• If you combine layer 2/3, make it clear where you are switching and where you are routing
Sample Layer 2/3 Diagram

ISP

Cisco 2901
Border Router (no NAT)

128.223.2.64/29

Cisco 3750-12D
Core Router

128.223.10.0/24

62.63.64.32/29

128.223.20.0/24

128.223.16.0/24

128.223.14.0/24

128.223.12.0/23

Art Faculty

General Science Faculty

Admin Building

Social Science Faculty

Server Network
Sample Layer 3 (Core detail)

Cisco 2901 Border Router

Cisco 3750-12D Core Router

Buildings
Symbols to use for diagrams