

ANTHONY'S POTATO CHIP COMPANY SCENARIO

Anthony's Potato Chip Company is a mid-sized company (employing approximately 500 people) headquartered in San Diego. The company's Production and Warehouse facility is in Alpine (a town outside of San Diego). For years Anthony's has depended on the sale of their delicious snack items, despite the fact that they are high in fat and calories. Recently, though, Anthony's found itself facing new challenges due to changes in customer expectations. The company decided to include healthy snacks—such as unsweetened dried fruit, pretzels, and oven baked chips and vegetables—along with their prior offerings. Once these new product lines were added, Anthony's sales began to rise dramatically! It soon became apparent to the CEO that one sales office wasn't enough, and to better meet the needs of customers, an additional sales office was opened in Escondido (a city just north of San Diego). The CEO also realized that for the company to be successful, it would need reliable communication between all of the offices. The current network system, which was old and failing to begin with, would need to be upgraded to accommodate the new infrastructure.

A network solutions provider was hired to upgrade the network, and the network manager had started crafting a proposal and high-level design recommendations. However, due to a conflict between the network manager and the company executives, the network manager ended up walking out in rage and quitting on the spot!

Your company, Apple Pie Networking Solutions (APNS), was asked to step in and complete the proposal and high-level network design. The previous network solution provider had already gathered background information and determined the Network Project Scope.

The San Diego Headquarters for Anthony's is a two story office. The Sales and Marketing Department is on the first floor. The second floor has the same floor plan as the first, except one of the rooms (211) is allocated to be the server room (i.e. the datacenter). Accounting and Finance, IT/Security/Systems Administration, and HR are on the second floor. The other two buildings are both single story offices (Production and Warehouse in Alpine, the new Sales office in Escondido).

Network Project Scope

[NOTE: This was completed by the previous network manager.]

The proposed network is designed to serve three office buildings: (San Diego office) the main headquarters, (Alpine office) manufacturing production (which includes the warehouse), and a remote sales office in Escondido.

If needed, use Google Earth or other software to measure the distance between the offices. Instructions can be found at: <https://support.google.com/earth/answer/148134?hl=en>.

The plan is to keep this network internal, and independent from bank, corporate attorney, suppliers, and their customers. Currently there are a number of LANs within the existing network, however, most of the equipment are out dated. Some of the LANs are not connected to the system wide network and there are a few that are incompatible.

Apple Pie Networking Solutions has been asked to submit this proposal and a high-level design to design the network for each of these buildings to ensure reliable communications between all offices.

Your job is to pick up where the former network manager left off and design a network solution for Anthony's Potato Chip Company!