

Lab 9.3.4 Creating the Bill Of Material

Objectives

- Create a Bill Of Material (BOM).
- Add equipment costs to the proposal.
- Add service and maintenance support costs to the proposal.

Expected Results and Success Criteria

Before starting this lab, read through the tasks that you are expected to perform. What do you expect the result of performing these tasks will be?

What are the potential issues that an inaccurate or incomplete Bill Of Material could have on the project implementation?

Background / Preparation

In this lab, you will create the Bill Of Material (BOM) and enter the appropriate information into the Costs section of the FilmCompany proposal.

A Bill Of Material is a document that details all of the required hardware and components necessary to implement the proposed upgrade. It consists of an itemized list of hardware, software, and other items that must be ordered and installed. The network designer uses this list to obtain quotations and to create the equipment orders. The BOM is then used to order new equipment and replacement parts for existing equipment. Therefore, every required item must be included in this list. Items left off the order will delay installation of that device.

To develop the BOM, each section of the FilmCompany network is examined to determine what networking equipment is required and what capabilities are needed in each device.

New equipment decisions are constrained by the project budget. As the network designer, you would normally collaborate with your company account manager assigned to the FilmCompany account to ensure that the equipment models selected are within the budget constraints and meet current and future business goals.

Use the design information and results of previous labs to compile the BOM for the FilmCompany network upgrade. Include the equipment required, software, and support costs.

Step 1: List the items required

- a. Use the table below, or create a similar one, to list all the items and equipment that need to be purchased for the FilmCompany network upgrade project.

Part No.	Item Description	Qty	Cost	Maint. Cost	Total Cost	Vendor	Notes

- b. Search the Internet or use information provided by your instructor to add possible suppliers or vendors to the BOM table.
- c. Add costs to the BOM. Where possible, obtain costs from local vendors and suppliers. If this information is not readily available, your instructor will provide estimated costs for you to use.

Step 2: Determine the software requirements

- a. During the early stages of the network Design Phase, existing applications were identified. Add new applications required by the network upgrade to the BOM. Categorize these as either Network or Specialist applications.
- b. Add the new applications, installation costs, and required training to the BOM with the identified hardware. Also indicate whether the network upgrade requires additional licenses to be purchased for existing software applications.

Step 3: Add maintenance contracts

- a. Investigate the maintenance support service contracts available for both the new and existing equipment.
- b. Add the details and costs to the BOM.

Step 4: Create the BOM

- a. Create the BOM using word processing or spreadsheet software. Using a spreadsheet will facilitate the calculation of total costs and enable easy updating of the document if costs or quantities are amended.
- b. Save this file and include it in the proposal document. Add a hardcopy of the file to your portfolio.