

# Norlings Wireless Stock Control System

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## 1 Introduction

The scope of this project was first created when Norlings required a new system that would increase the speed and accuracy of their current stock control method. This system would also provide them with a future proof and secure wireless system throughout their premises while also providing a unique wireless backbone for the use of wireless handheld scanners and other portable computers. An accounting package also needed to be sourced to ensure that the future solution would fulfill Norlings requirements of:

- A robust wireless bar-coding system for stock control
- Future proof accounting package suited for Norlings

## 2 Objectives

The project included the following main objectives;

- Design a wireless network for Norlings
- Research and provide key details for Norlings on a suitable accounting package
- Research of 802.11a/b/g barcode scanners
- Examine and document wireless hardware available to:
  - Give the ability to handoff to access points
  - Support security requirements
  - Support requirements of handheld scanners
  - Be compatible with current network structure
  - Undertake testing methods to ensure that wireless hardware will function correctly.

## 3 Methods

This project was undertaken by Cass Toyne who used the following methods to provide Norlings with a complete solution:

- The creation of to-scale site diagrams (below and right)
- Hardware and software research including attending a Trapeze seminar.
- Phone conferences with Steve Scarborough from HP to ensure solution will provide Norlings with a suitable and future proof software system.
- Wireless decibel testing throughout Norlings premises which provided the needed information to create a logical network diagram and 'best placed' AP positioning.

