MCMASTER UNIVERSITY

CAS 4ZP6 CAPSTONE PROJECT 2013/2014

PORTER SIMULATION

User Manual Revision 0

Authors: Vitaliy Kondratiev - 0945220 Nathan Johrendt - 0950519 Tyler Lyn - 0948978 Mark Gammie - 0964156

Supervisor: Dr. Douglas Down

February 20, 2014

CONTENTS

1	Introduction	3
2	Installation	3
3	Input Configuration	3
	3.1 Basic Settings - General	3
	3.3 Basic Settings - Data Source	
4	Output Data	3

- 1 Introduction
- 2 Installation
- 3 INPUT CONFIGURATION
- 3.1 Basic Settings General
 - (i) Number of Porters:
- (ii) Job Distribution:
- (iii) Simulation Duration:
- 3.2 Basic Settings Compliance
 - (i) Correct Equipment Usage:
- (ii) Patient Readiness:
- (iii) Porter Wait Times:
- (iv) Chance of Job Cancellation:
- 3.3 BASIC SETTINGS DATA SOURCE
 - (i) Use Data From:
- (ii) Statistical Data Source:
- (iii) Schedule Data Source:
- 3.4 ADVANCED SETTINGS DISPATCHER
 - (i) **Appointment Factor:** Jobs that are scheduled in advanced need to be given priority over jobs generated on-demand. Increasing the appointment factor will decrease the time scheduled jobs spend waiting for a porter.
- (ii) **Automatic Job Priority Values:** Jobs waiting for a porter need to increase their priority after waiting for a specified amount of time. The "Minutes" will determine how long a job waits until it increases in priority.
- (iii) **Weighted Job List:** Jobs of different priorities need to have different weights. This weight helps determine how quickly the job should be assigned to a porter.
- (iv) **Proximity Match Values:** The closeness of a porter to pending jobs will factor into how quickly a job is assigned to a porter.
- 4 OUTPUT DATA