

# Improvement of Defects Reporting Process through Digitization





## Introduction

Every day, housekeepers will carry out routine inspections and record defects such as stained ceiling boards and mouldy toilets on the fix-it report form.

The defects will then be transcribed and entered into the CMMS (Computerized Maintenance Management System) via the computer terminals at Housekeeping Office. The supervisor will create work orders for all the defects and the system will transmit them to the facilities maintenance teams for rectification.

As the use of hardcopies is both cumbersome and time-consuming, there is a need to streamline the defects reporting process to become more efficient and at the same time provide seamless communication between Housekeeping and Facility Management departments.

## Objectives

To improve the efficiency of defects reporting through:

- 1) Removal of hardcopy reporting;
- 2) Improve the time taken to report a defect and updating of status;
- 3) Allow easy retrieval of historical data; and
- 4) Allow auto report generation for analyses.

# Methodology (DMAIC – 5 phases of Lean Six Sigma)

Define

Manual way of reporting is time consuming and inefficient. Thus the aim is to streamline the process.

Measure

Baseline: Number of steps and time taken to complete the current process versus the improved process. Current process takes 8 steps and a total process time of 548 mins to complete.

- 1: Housekeeping supervisors identify defects during inspections
- 2: Housekeeping supervisors record the defects on fix-it forms
  - 3: Housekeeping supervisors go back to office to enter the defects into the CMMS
- 4: Facility Management (FM) Department receives the work orders via the CMMS
  - 5: FM admin assigns work orders to technicians via hardcopy reports
  - 6: Technicians receive hardcopy reports and rectify the defects
- 7: Technicians record the completion status on the hardcopy reports and submit them to FM admin at the end of each shift
- 8: FM admin enters the updated status into the CMMS. 2 mins

### Analyse

Eliminate non-value added transcribing process and remove hardcopy defects recording process.

#### Improve

Implement a closed loop digitized platform known as Snap & Send smartphone application - eFacility Management System (eFMS) for defects reporting and updating of defects completion status.

### Control

Provide new system training, monitor the new workflow and gather user and customer feedback.

## Results

1) Reduction in time and number of steps taken from reporting a defect to status completion. The improved process takes 6 instead of 8 steps and the total process time was reduced by 87% to 68 mins.

• 1: Housekeeping supervisors identify a defect during inspection

2 mins

• 2: Housekeeping supervisors use Snap & Send application to snap a photo of the defect to report it

2 mins

• 3: FM Department receives the work orders in eFMS

2 mins

• 4: FM admin assigns work orders to the technician via eFMS

60 mins

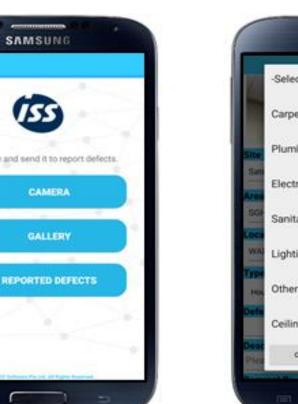
• 5: Technicians receive the work orders via eFMS and proceed to rectify the defects

2 mins

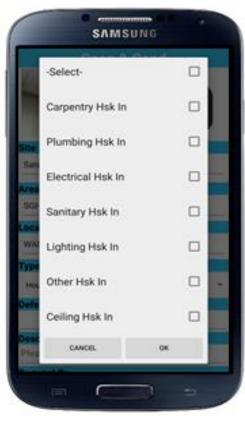
• 6: Technicians update completion status in eFMS

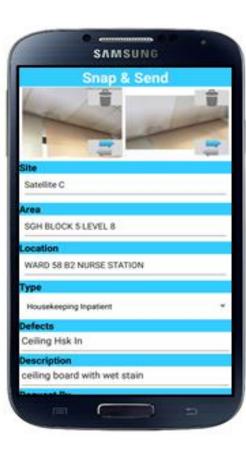
#### **Snap & Send Application User Interface**

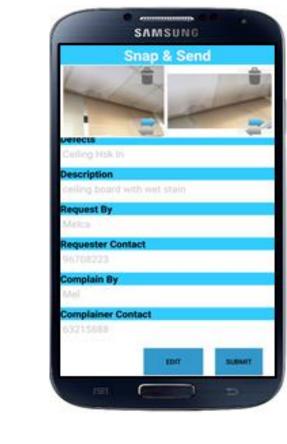




Satellite A-SGH BLOCK 7 BASEMENT 1 BLK 7 B1 TUNNE







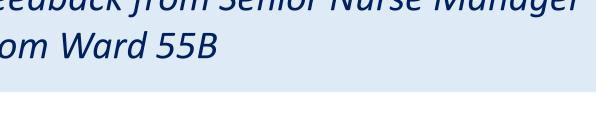
2) Paperless system allows easy retrieval of historical data and report generation

Case ID         Task D           20160603068         03/06/2016         11           20160604011         04/06/2016         11           20160606003         06/06/2016         8:           20160607020         07/06/2016         9:           20160607021         07/06/2016         9:           20160607022         07/06/2016         9:           20160610001         10/06/2016         7:           20160612009         12/06/2016         15           20160612010         12/06/2016         15           20160613023         13/06/2016         14           20160613037         13/06/2016         15           20160617018         17/06/2016         9:           20160617019         17/06/2016         9:           20160617021         17/06/2016         9:           20160620029         22/06/2016         1           20160625007         25/06/2016         1           20160625010         25/06/2016         1           20160625011         25/06/2016         1	1:43 1:08 :39 :27 :31 :33 :42 6:40 5:55 5:59 1:34 4:19 :13	Area Satellite A-SGH BLOCK 6 LEVEL 2 Satellite A-SGH BLOCK 6 BASEMENT 1 Satellite A-SGH BLOCK 6 LEVEL 9 Satellite A-SGH BLOCK 7 LEVEL 1 Satellite A-SGH BLOCK 7 LEVEL 1 Satellite A-SGH BLOCK 7 LEVEL 1 Satellite A-SGH BLOCK 6 BASEMENT 1 Satellite A-SGH BLOCK 6 LEVEL 1 Satellite A-SGH BLOCK 4 LEVEL 1 Satellite A-SGH BLOCK 4 LEVEL 1 Satellite A-SGH BLOCK 4 LEVEL 1	Location  BLOCK 6 L2 ENDO RECEPTN COUNTER  BLOCK 6 B1 TUNNEL  BLOCK 6 L9 DECK ON 9  BLOCK 7 L1 PORCH AREA  BLOCK 7 L1 CLINIC 'C' MUSCULO SKELETEL CTR  BLOCK 7 L1  BLOCK 6 B1 TUNNEL  BLOCK 7 L1  BLOCK 6 L1  BLOCK 6 L1  BLOCK 6 L1  BLOCK 4 L1 RETAIL PHARMACY  BLOCK 4 L1 PUB MALE TOILET	Task Type Housekeeping	Fault List  Buliding Defect  Buliding Defect  Buliding Defect  Other  Buliding Defect  Carpentry  Buliding Defect  Buliding Defect	swing door at counter is noisy wall is chip OIC Xray 1 floor Spoiled public Female Toilet All cubicle of Female Public Toilet Mirror Edge Near dispenser area wall paint p Air vent damage
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0160615006   15/06/2016   9: 0160617018   17/06/2016   9: 0160617019   17/06/2016   9: 0160617021   17/06/2016   9: 0160622029   22/06/2016   11 0160625007   25/06/2016   13 0160625010   25/06/2016   13 0160625011   25/06/2016   13	:13					
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0160622029 22/06/2016 11 0160625007 25/06/2016 10 0160625010 25/06/2016 13 0160625011 25/06/2016 13	:12	Satellite A-SGH BLOCK 6 LEVEL 1	BLOCK 6 L1	Housekeeping	Other	aircon grille faulty in Male toilet be
0160625007   25/06/2016 10 0160625010   25/06/2016 13 0160625011   25/06/2016 13	:13	Satellite A-SGH BLOCK 4 LEVEL 1	BLOCK 4 L1 PUB FEMALE TOILET	Housekeeping	Buliding Defect	Wall got hole
0160625010 25/06/2016 13 0160625011 25/06/2016 13	1:27	Satellite A-SGH BLOCK 6 LEVEL 2	BLOCK 6 L2 ACUPUNTURE CTR	Housekeeping	Buliding Defect	wall Badly Stain Inside the wall M
0160625011 25/06/2016 13	0:57	Satellite A-SGH BLOCK 7 LEVEL 8	BLOCK 7 L8	Housekeeping	Other	Ceiling board torn at corner
0160625011 25/06/2016 13	3:48	Satellite A-SGH BLOCK 7 LEVEL 1	BLOCK 7 L1	Housekeeping	Buliding Defect	MSC Room 11 outside 3 Pailar P
	3:50	Satellite A-SGH BLOCK 4 LEVEL 1	BLOCK 4 L1	Housekeeping	Buliding Defect	wall Badly Cracked and Paint Per
20160628041 28/06/2016 14	4:45	Satellite A-SGH BLOCK 4 LEVEL 2	BLOCK 4 L2	Housekeeping	Buliding Defect	Wall guard came out
20160629001 29/06/2016 7:	:42	Satellite A-SGH BLOCK 4 LEVEL 1	BLOCK 4 L1	Housekeeping	Other	marble floor with hole infront of lif
20160629011 29/06/2016 9:		Satellite A-SGH BLOCK 7 LEVEL 8	BLOCK 7 L8	Housekeeping	Buliding Defect	78 Cleaner store ceiling crack
20160712022 12/07/2016 10	0:56	Satellite A-SGH BLOCK 7 LEVEL 1	BLOCK 7 L1	Housekeeping	Buliding Defect	Wall Guard Rusty and Wall Paint
20160712041 12/07/2016 14	4:27	Satellite A-SGH BLOCK 7 LEVEL 1	BLOCK 7 L1	Housekeeping	Buliding Defect	MSC Room 16 wall Cracked
20160713009 13/07/2016 8:	:57	Satellite A-SGH BLOCK 4 BASEMENT 1	BLOCK 4 B1 DISPOSAL RM	Housekeeping	Other	water seepage from the wall
20160715006 15/07/2016 9:	:04	Satellite A-SGH BLOCK 4 LEVEL 1	BLOCK 4 L1	Housekeeping	Other	ceiling outside Hyperbaric centre
20160715007 15/07/2016 9:	:09	Satellite A-SGH BLOCK 4 LEVEL 1	BLOCK 4 L1	Housekeeping	Other	floor to paint
20160721001 21/07/2016 7:	:57	Satellite A-SGH BLOCK 7 BASEMENT 1	BLOCK 7 B1	Housekeeping	Carpentry,Other	the door can not close fully as it h

3) Seamless integration between housekeeping and FM departments leading to better customer experience and satisfaction

> "Supervisor Li Yan & Mr Kovan provided prompt action taken to ensure water flooded in room 23 & 25 resolved within an hour."

#### Feedback from Senior Nurse Manager from Ward 55B



## Conclusion

Digitizing the defects reporting process has significantly reduced the time taken from defect reporting to completion. More importantly, the new process created operating synergies between housekeeping and FM departments, thus leading to work done more efficiently and effectively. Both customer and user satisfaction have also improved tremendously with the introduction of the Snap & Send smartphone application – eFacility Management System.