# **Risk Management Plan**

# RFID Implementation for Fresh Foods

Prepared By: Amber Russell
Curt Ireton
Damon Mulligan
Jan Bondoc
Tyler Rudolph

**Project Manager: Amber Russell** 

**Project Sponsor: Robert Judge** 

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Approval of the Risk Management Plan indicates an understanding of the purpose and content described in this deliverable. By signing this deliverable, each individual agrees work should be initiated on this project and necessary resources should be committed as described herein.

Approver Name	Title	Signature	Date

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## Introduction

This document is the Risk Management Plan for the RFID Implementation of Fresh Foods project. It contains the risks, how they will be identified, the impact, probability, and cost of those risks. It will also show how those costs will be mitigated and how they will be monitored and controlled. Certain personnel will be in charge of each of these risks and identified in this document. The purpose of this plan is to increase the positive risks and decrease the chance of negative risk. We understand that not all risks can be identified and processes have also been put into place to deal with those unknown risks.

## **Risk Management Planning**

Throughout the RFID implementation project risks must be identified, assessed and eliminated when possible. To ensure the success of the project the following process has been laid out for proper risk management planning.

## Risk Management Tactic

Hopefully a majority of risk identification will occur during the planning phase. Methods will include information gathering, brainstorming, detailed stakeholder analysis and the creation of a risk register. If unforeseen risks are identified and other methods of analysis are required this plan can be adapted as necessary.

#### Roles and Responsibilities

- Project Manager- Is responsible for managing the risks of the project. The PM will assign various team leads as necessary to complete this task.
- ii. Project Sponsor- Is responsible for ensure funding and staff resources are made available as required for the project.
- iii. Stakeholders- Are responsible for mitigated the risks within their area of the project.
  If unforeseen project are identified the project manager should be notified immediately.

#### **Budget**

Labor and other costs associated with risk management have been included in the appropriate line items in the project budget. Therefore no costs an associated strictly with risk management.

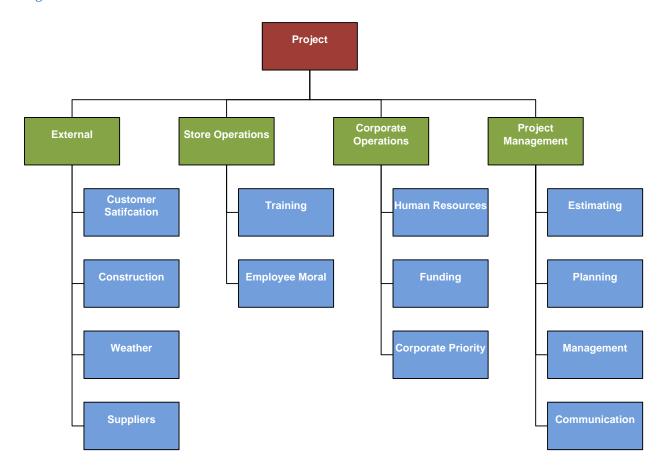
#### Timing

Risks will be assessed during the planning phase of the project and a schedule will be established for each identified risk. This schedule will allow the project manager to ensure the proper actions are taken to mitigate the risk. Risks will be reevaluated during launch of each project phase and major project milestone and schedule updated as appropriate.

## Risk Breakdown Structure

The Risk Breakdown Structure in Figure 1 categorizes the different risks of the project.

Figure 1: Risk Breakdown Structure



## **Risk Identification**

Techniques

iv. Brainstorming – team and subject matter experts generate the list of risks

Category	<u>Risks</u>						
	1. Quality of customer service may decrease due to the decrease in staff						
	2. Customers will revolt if they are dissatisfied with the implementation of RFID						
	3. Training customers						
Customers	4. Customers have increased confusion on tagging produce items with RFID label						
	5. Managing fraud based on scale and RFID readers consistency in accuracy						
	6. Hackers can take advantage of this new technology by hacking into the system or						
	making RFID tags of their own						
Fraud	7. Customers can forget to tag produce items						
	8. Employee strike						
	9. Employee adaptability						
	10.Employees loss in trust						
Employees	11. Human Resource productivity to meet expectations						
	12. Complication with pricing the produce products with lack of supervision of RFID						
	tag makers						
	13. Revenue can be at risk if there is inconsistency with product pricing						
	14. RFID may has complications with scanners and may not scan all items						
Pricing	consistently which will affect inventory and revenue						
	15. Stock and inventory control						
Inventory	16. Supplies for implementing RFID not delivered on time						
Management	17. Lack of knowledge for RFID inventory process						
	18. RFID technical issues						
	19. RFID limitations						
	20. Lack of technical knowledge for RFID; when RFID system goes down and orders						
	cannot be fulfilled						
Technical issues	21. Design standards and processes						

v. SWOT – Strengths, Weaknesses, Opportunities & Threats are generated by the project team.

## **Qualitative Risk Analysis**

a.Probability & Impact Matrix

Each of the identified risks are distributed based on risk probability and how they would impact the business; either negative or positive.

Risk Probability	Threats				Opportunities					
90%	-	-	-	-	-	-	-	-	-	-
70%	•	-	-	-	-	-	-	16	-	-
50%	20	19	-	1		-	18	14	9	-
30%	11	2	7	-	17	-	21	3	15	-
10%	6	8	12	10	13	-	5	-	ı	-
	1-2	3-4	5-6	7-8	9-	1-2	3-4	5-6	7-8	9-
				10					10	
	Negative Impact						Posi	tive Im	pact	

## b. Risk relative ranking per category by team

The significance and the likelihood of the risk categories are scored. When these two are added together, the result will be the Risk score of each of these risk categories. By looking at the scores, one could find out the impact and the probability of the risks that are identified as shown in Figure

Category	Significance	Likelihood	Risk Score	Key Risk?
Customers	4	3	7	Yes
Fraud	3	2	5	Yes

<u>SWOT</u>						
	Leader in technology					
	Improve process flow					
Strengths	Customer satisfaction by adding value to service					
	RFID Technical Support Knowledge					
	RFID tagging for produce					
	Major inventory fluctuations					
	Internal fraud					
Weaknesses	Damage reputation if RFID is not effective					
	First to implement RFID in grocery stores					
	Eliminate barcodes					
Opportunity	Open new market segments					
	External fraud					
Threats	Competitors entering the RFID market					

Employees	3	2	5	Yes	
Pricing	4	2	6	Yes	
Inventory	2	2	6	Yes	
Management	ס	า	Ь	163	
Technical issues	3	1	4	Yes	

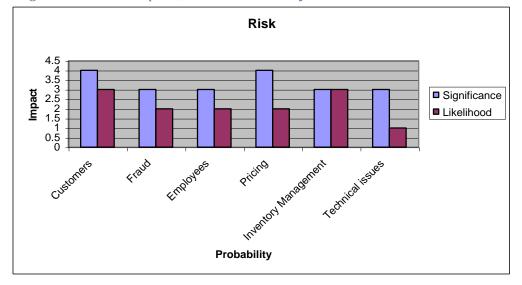


Figure 2: Risk, Impact, and Probability Chart

The inputs into this process include the risk register, risk management plan, cost management plan, schedule management plan and the organizational process assets.

 Interviews will be conducted of the project team, Fresh Foods employees, suppliers, and other project managers that have been involved in similar projects to quantify the risks identified.

#### b. Cost

The highest cost for the risk can be expected from the customers that do not want to use the system and the problems that may arise from incorrect use of the RFID technology by the Fresh Foods employees.

## Contingency Planning

### Cost

- i. System will be assessed for accounting changes and new accounting processes prior to implementation.
- ii. Costs will be fixed in the system and validated during pilot program to ensure cost consistency.

### Schedule

iii. Employees will be scheduled to capacity to ensure the new system is complementary to their employment.

iv. Suppliers will be contacted prior to purchasing equipment so there will be sufficient lead-time for orders.

#### b. Scope

- i. Employees will be involved at beginning of project.
- ii. Customers will be introduced to the new technology before system is implemented so they will both look forward to using the system and be familiar with its operation.

## Risk Monitoring and Control

## Risk Register Updates

- i. Project risk reassessments will be made on a regular basis.
- ii. Amount and detail of risk reassessment will be dependent on project advancement.

### **Risk Audits**

- iii. The project manager will schedule risk audits regularly.
- iv. Audits will examine risk response effectiveness associated with risks and their root causes.

### **Status Meetings**

v. Risk management will become an integral part of project status meetings in expectation that more people will identify risks and opportunities.

## **Risk Register**

Number	Rank	Risk	Description	Risk Category	Root Cause	Triggers	Probability	Impact	Risk Score Risk Owner	Potential Responses
	5	Customers	Quality of customer service may decrease due to the decrease in staf	5 AH	Employee layoffs	Decrease in staff	Medium	Serious	2.5 Human Resource Manager	Reallocate employees to handle customer services
1	3	Customers	Customers will not shop at Fresh	I All	Employee layons	Decrease III stall	Wedidiii	serious	2.5 Hullian Resource Manager	customer services
			Foods if they are dissatisfied with the	2						Consider customer suggestions in
2	14	Customers	RFID implementation	All	RFID Readers	Change in checkout style	Low	Moderate	0.9 Assistant Project Manager	making system more acceptable
	10	Customers	Training customers	Scope	New checkout system	Most customers have never used	low	Serious	1.5 Assistant Project Manager	Position help attendants at RFID checkout aisles
3	10	Customers	Customers have increased confusion		New Clieckout system	RFID technology	LOW	serious	1.5 Assistant Project Manager	Checkout disies
			on tagging produce items with RFID			Customers have never used RFID				Position help attendants in produce
4	2	Customers	label	All	New system	tagging	High	Serious	3.5 Assistant Project Manager	department
-	19	Feared	Managing fraud based on scale and	Cost	Unethical customers	Custom are foldou unichina itama	Venden	Moderate	0.3 Project Manager - RFID	Define scale validation
5	19	Fraud	RFID readers' consistency in accuracy	Cost	Unethical customers	Customers falsley weighing items	Very Low	Moderate	0.3 Project Manager - KFID	Define scale validation
			Hacking into RFID system or creating							Secure RFID system for authorized
6	21	Fraud	fake RFID tags	Cost	New technology	Ineffective system security	Very Low	Moderate	0.2 Project Manager - RFID	personnel
_			Customers can forget to tag produce							Position help attendants in produce
/	11	Fraud	items	All	New system	Customers forgetting tags	Low	Serious	1.2 Assistant Project Manager	department
										Hold open discussions including
8	20	Employees	Employee strike	All	Employee layoffs	Implementation of new system	Very Low	Moderate	0.3 Human Resource Manager	employee input to solve issues
_				_						Advise employees regarding new
9	1	Employees	Employee adaptability	Scope	New system	Decrease in staff	Medium	Very Serious	3.5 Human Resource Manager	system employee requirements
										Be transparent with employees
10	17	Employees	Employees loss in trust	All	Employee layoffs	Implementation of new system	Very Low	Serious	0.5 Human Resource Manager	regarding new expectations
			Human Resource productivity to							
11	16	Employees	meet expectations Complication with pricing the	Schedule	New system	Implementation of new system	Low	Moderate	0.6 Human Resource Manager	Reward employee effort
			produce with lack of supervision of						Project Manager - Product Labeling	
12	18	Pricing	RFID tag makers	Cost	Use of new tagging process	Tagging produce	Very Low	Serious	0.4 Team	Have trainers work with taggers
										Have accountants run checks on
13	15	Deleina	Revenue can be at risk if there is	Cont	Use of new accounting software	Deletes messhoudies	Venden	Van Faring	0.7 Desired Manager DEID Coffman	pricing before and after RFID software
13	15	Pricing	inconsistency with product pricing	Cost	process	Pricing merchandise	Very Low	Very Serious	0.7 Project Manager - RFID Software	sortware
			RFID scanner complications causing							Run tests on newly installed
14	4	Pricing	inconsistency in accounting	Cost	New system	Scanning merchandise	Medium	Serious	2.5 Project Manager - RFID Hardware	hardware
15	6	Inventory Management	Stock and inventory control	All	New system	Internal problems with accounting	Medium	Very Serious	2.1 Accounting Manager	Assess new system for reliability
13	0	inventory ividiagement	Stock and inventory control	All	New system	internal problems with accounting	Wedidiii	very serious	2.1 Accounting Manager	Schedule purchasing according to
			Supplies for implementing RFID not			Supplier not informed or				product availability and with
16	3	Inventory Management	delivered	Schedule	Use of new product	experiencing delivery problems	High	Serious	3.5 Supply Chain Manager	supplier's schedule
17	7	Inventory Management	Lack of knowledge for RFID inventor	y Scope	New system	Complications processing inventory	Medium	Very Serious	2.1 Project Manager - RFID	Train employees in new inventory process
1/	,	inventory ivianagement	process	scope	New system	Complications processing inventory	Wedidiii	very serious	2.1 Project Wallager - Krib	process
										Make changes/fixes to RFID system
18	8	Technical Issues	RFID technical issues	All	New system	Technology new to employees	Medium	Moderate	1.5 Engineer - RFID	as necessary prior to implementation
19	9	Technical Issues	RFID limitations	All	New system	Limited technology	Medium	Moderate	1.5 System Analyst 1	Define limitations of system prior to implementation
13	9	recinical issues	Lack of technical knowledge of RFID;		New system	difficed technology	Wedidiii	Widdelate	1.5 System Analyst 1	Implementation
			when RFID system goes down and							Ensure all support mechanisms are in
20	12	Technical Issues	orders cannot be filled	All	Lack of product support	RFID system failure	Medium	Moderate	1 Lead Systems Analyst	place and backup system is operable
						prin to the dead of the second of the				All team members are working
21	13	Technical Issues	Design standards and practices	All	New technology	RFID technology is used as a pilot process for other stores	Medium	Moderate	0.9 Program Manager	together and quality assurance is in place
4.1	13	recallical issues	pesign standards and practices	7311	cw technology	process for other stores	Wediaiii	Moderate	0.5 Flogram Wanagel	proce